



# Connecting Things Connecting Future

Korenix Full Selection Guide

Industrial Data Communication

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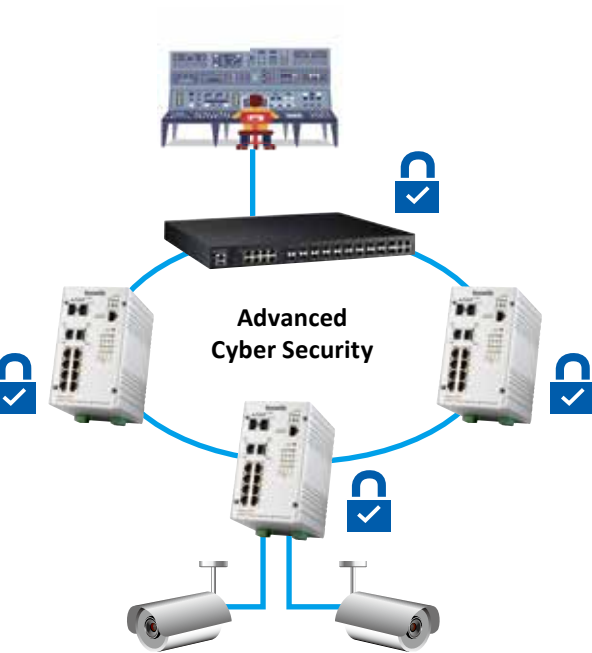
## Company Profile

**Korenix Technology**, a Beijer group company within the industrial communication business area, is a global leading manufacturer since 2004. We provides innovative, market-oriented, value-focused industrial wired and wireless networking solutions including various product lines:

- Industrial Ethernet Switch
- Industrial Power-over-Ethernet Switch
- Industrial Wi-Fi/Cellular Solution
- Industrial Media Converter
- Industrial Connectivity
- Network Management Software

# Key Features – Cyber Security

The trends of Internet of things (IoT) and Industrial 4.0 brings more devices to be connected to networks. Security issues and hack attacks become even more critical nowadays. Korenix developed “Cyber Security” provide below features.



### Network Level Defense

- DHCP Snooping
- Dynamic ARP Inspection
- IP Source Guard

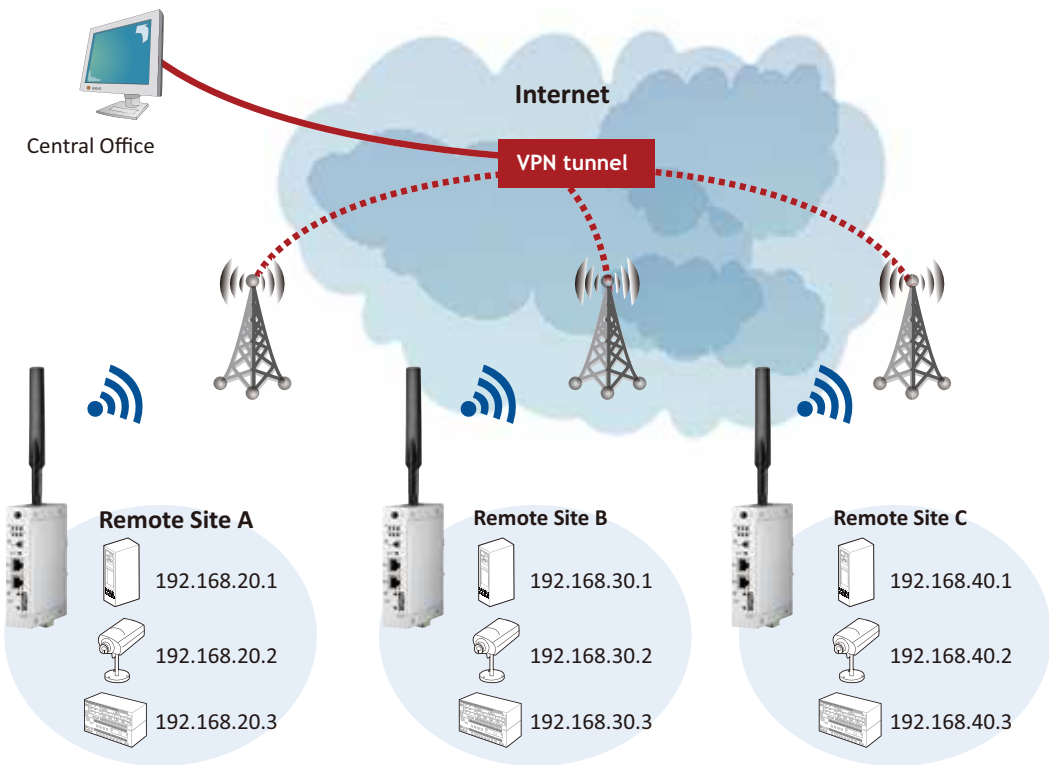
### Traffic Level Defense

- L3/L4 ACL block untrusted traffic from a trusted device
- Precise video stream isolation

### Device Level Defense

- L2 ACL identifies and authorizes a device
- Only trusted devices can access the network

**VPN (Virtual Private Network)** extends a private network across a public network as if it were directly connected to the private network. It provides security by the use of tunneling protocol and often through procedures such as encryption.



| Function                    | Application                                      | Benefits                                            |
|-----------------------------|--------------------------------------------------|-----------------------------------------------------|
| DHCP Snooping               | Ensure clients obtain IP from authorized server  | Preventing unauthorized DHCP attack                 |
| Dynamic ARP Inspection(DAI) | Binding IP + MAC on devices                      | Only authorized devices can access into the network |
| IP Source Guard(IPSG)       | Validates incoming packets                       | Prevents IP address spoofing                        |
| Multi-Level Authentication  | Different levels users' authentication           | Different privileges according to different levels  |
| TACACS+                     | Remote authentication for network access control | One-time authentication on devices, higher security |

# Key Features – Redundancy

## Multiple Super Ring

Beyond Fast Recovery

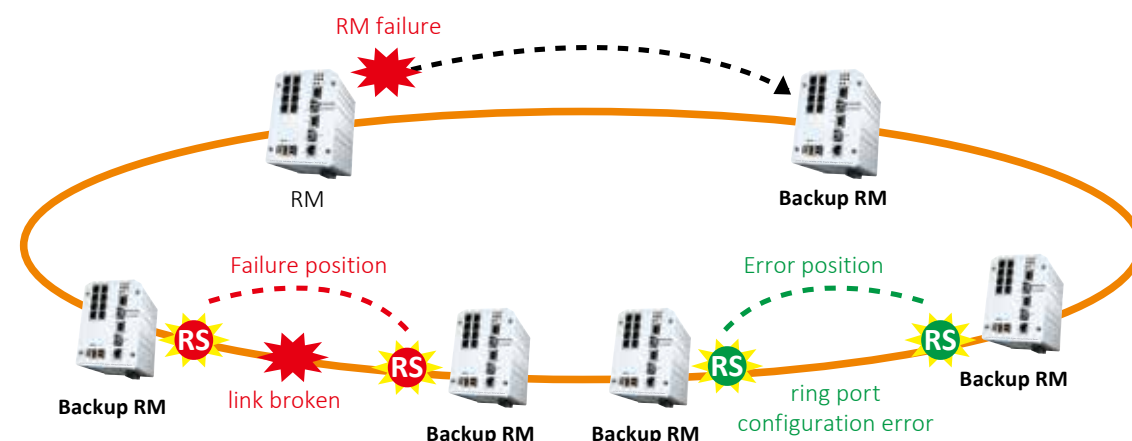
It's reliable, stable, quality and broadcast-storm-free.

### RM Redundancy

While RM is the only manager in the ring, Korenix-patented **RM Redundancy** solves the critical point problem and guarantees the ring is always well-controlled.

### Backup RMs All Standby

Every switch other than the RM is **Backup RM**. One of the backup RM will immediately take over the role if the RM happens to fail. No manual configuration is required.



### 5 ms\* Failure Recovery

Korenix-patented **Seamless Restoration** introduces the most stable restoration process to the world.



Seamless Restoration    Packet loss    Broadcast storm

\*Note: support on target models

### Failure Positioning Failure Identification

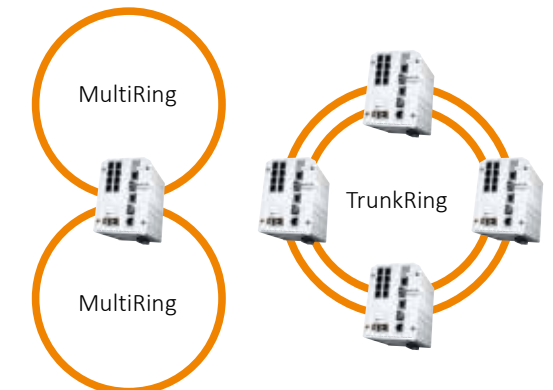
Korenix NMS and the RS LED (Ring Status) help administrators and field engineers to identify the type and location of a failure, which quickens troubleshooting.



Korenix NMS points out the failure position

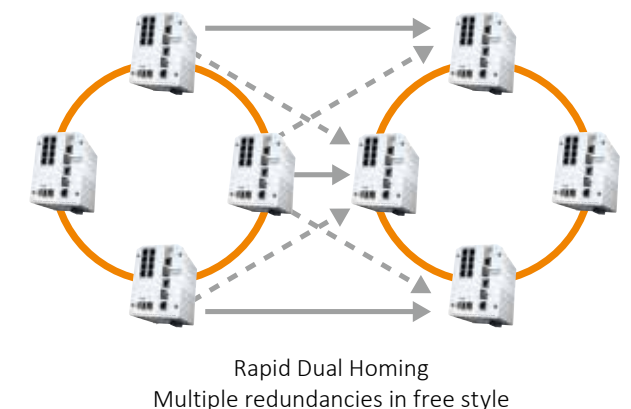
## MultiRing, TrunkRing Flexible Ring Deployment

MultiRing provides the simplest way to connect multiple rings together. TrunkRing combines port trunk and MSR technologies, which doubles the network bandwidth and the link redundancy.



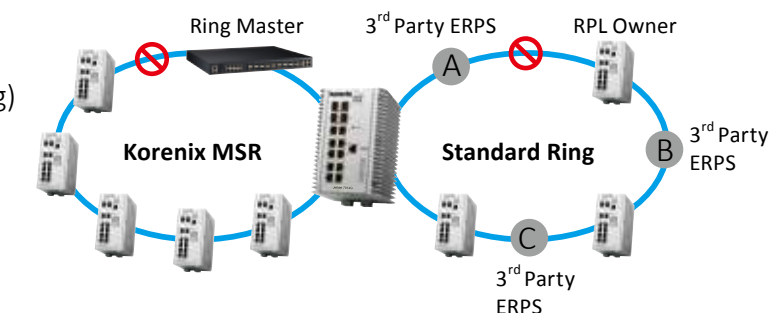
## Rapid Dual Homing Double, Triple... Redundancy

Simply enable the function and connect two rings through multiple links in free style without complex configurations such as master, slave, coupler port and so on. The failover time is less than 50ms and restoration time is 0.



## Korenix offers both proprietary and open technologies to meet various requirements

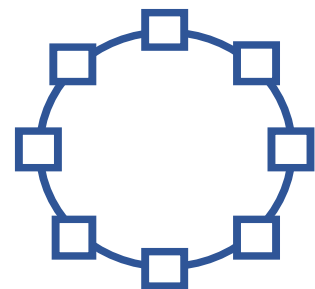
- Korenix Proprietary: MSR (Multiple Super Ring)
- Standard Network Redundancy
  - IEEE 802.1d Rapid Spanning Tree (RSTP)
  - IEEE 802.1s Multiple Spanning Tree (MSTP)
  - ITU-T G.8032 ERPS



## Korenix MSR

### Ultra Fast Recovery Without Single Point Of Failure

One of the best redundant technology, 5ms\*fast recovery, 0ms seamless restoration, without risk of the single point of failure on RM.

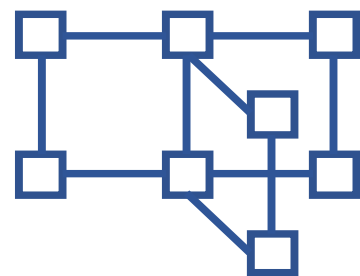


\*Note: support on target models

## ERPS V2

### Flexible In Topology Without Compromise On Recovery Time

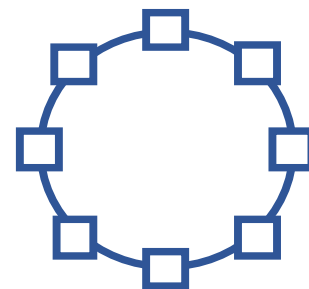
Future proof, easy expansion by adding unlimited levels of rings. Each ring operates independently, and the recovery time in all rings are deterministic, 50ms recovery, 50ms restoration.



## ERPS V1

### Single Ring With Multiple Vendors Mixed

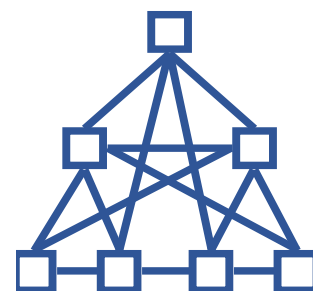
Takes the advantage of the openness, the switches in a ring will not be tied to specific supplier any more. Moderate failover time, 50ms recovery, 50ms restoration.



## RSTP

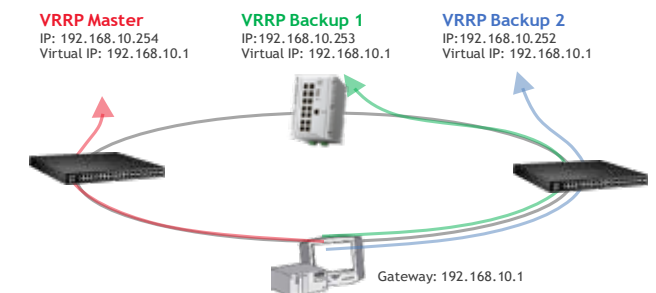
### Any Topology, Multi- Vendors, Recovery Time Is Not Critical

The main purpose of RSTP is for connecting switches from different vendors into any kind of topology. It's flexible and safe, however, the recovery time is not deterministic, depends on the size and topology.



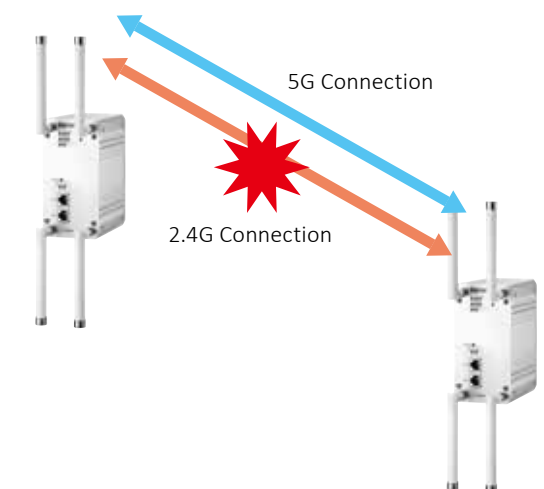
## VRRP (Virtual Router Redundancy Protocol)

VRRP increases the availability and reliability of routing paths via automatic default gateway selections on an IP subnetwork group. If one router goes down, one of the other group members can take place for the responsibilities for forwarding the traffic.



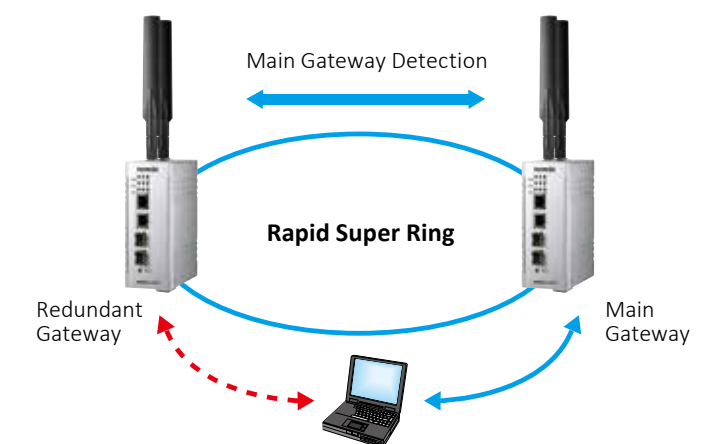
## Dual Radios for wireless Redundancy

JetWave 3220 supports two Wifi interfaces that can be configured as 802.11a/b/g/n/ac and 2.4G/5G band. By connecting the two Wifi interfaces to the same peer, the two links backup with each other. Users can assign primary link on one interface and backup link on the other.



## RSR Redundant Gateway

JetWave products support RSR Redundant Gateway design: the main and redundant gateway exchanges the same gateway settings with each other while the RSR ring is normal. Once the main gateway is shutdown or the RSR ring abnormal, the backup gateway is activated to ensure the edge client devices still can access the internet through backup gateway.



# Key Features – Power over Ethernet

## Per Port Power Budget

Defines an upper bound of the PoE output of each port to prevent over consumption from a malicious or malfunctioning PD.

Port Configuration

| Port | PoE Mode | Powering Mode    | Power Budget(W) | Power Priority |
|------|----------|------------------|-----------------|----------------|
| 1    | Disable  | 802.3af          | 32.0            | Critical       |
| 2    | Enable   | 802.3af          | 15.4            | Critical       |
| 3    | Enable   | 802.3af(2-Event) | 32.0            | Critical       |
| 4    | Enable   | 802.3af(LLDP)    | 32.0            | Critical       |
| 5    | Enable   | Force            | 32.0            | Critical       |

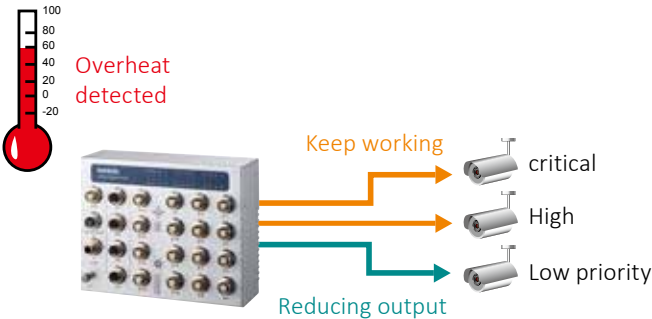
## PoE On Demand

PoE scheduling turns on/off a PD according to the user defined schedule, 802.1AB LLDP PoE negotiates with PD to give power on demand. It's simply green and efficient.



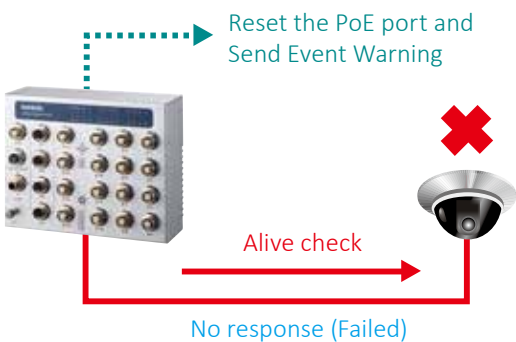
## Overheat Protection

An embedded thermal sensor warns of overheating. The PoE output of less important ports will be reduced to ensure critical PD functioning in abnormal conditions.



## PD Keep-Alive Check

LPLD does a keep-alive check on PD periodically and resets the PoE port to bring the PD back to life if a PD failure is detected.



# Key Features – Full Network Management

## Full Network Management Features with Lite Managing Interface

Korenix managed switches support the most commonly used network management features such as MSR, RSTP, VLAN, QoS, IGMP snooping and so on. Users who do not need advanced group management features or SNMP can benefit from this cost effective solution in their projects.



User-friendly web interface



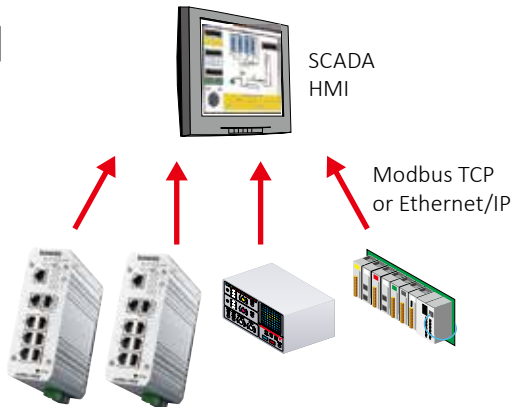
utility



Cisco-like CLI

## Modbus TCP, Ethernet/IP Managed for Industrial Integration

Industrial engineers are able to include JetNet switches and monitor the network status on their SCADA or HMI systems through Modbus TCP or Ethernet/IP without the need of IT knowledge or an additional network management system.



Monitor and control the network and the industrial devices through one single management interface

## Key Features – Software Tool

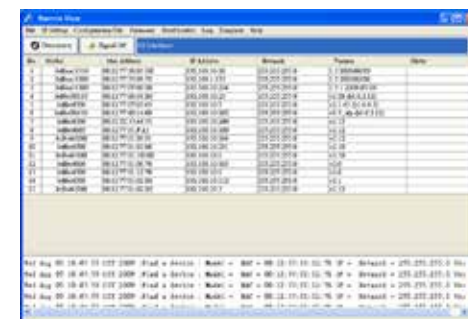
### Korenix NMS

Korenix NMS (Industrial Intelligent Network Management System) provides a comprehensive platform for monitoring, configuring, and maintaining mission-critical IP-based communication networks.



### Korenix View

Korenix View is a client/server architecture based management tool that will discover Korenix devices on all network interfaces or the specific one. Group management is supported. With group assign IP address, firmware upgrade..., it can help to achieve an efficient management.



| IP Address   | Model       | Status |
|--------------|-------------|--------|
| 192.168.1.1  | Korenix-100 | Online |
| 192.168.1.2  | Korenix-100 | Online |
| 192.168.1.3  | Korenix-100 | Online |
| 192.168.1.4  | Korenix-100 | Online |
| 192.168.1.5  | Korenix-100 | Online |
| 192.168.1.6  | Korenix-100 | Online |
| 192.168.1.7  | Korenix-100 | Online |
| 192.168.1.8  | Korenix-100 | Online |
| 192.168.1.9  | Korenix-100 | Online |
| 192.168.1.10 | Korenix-100 | Online |

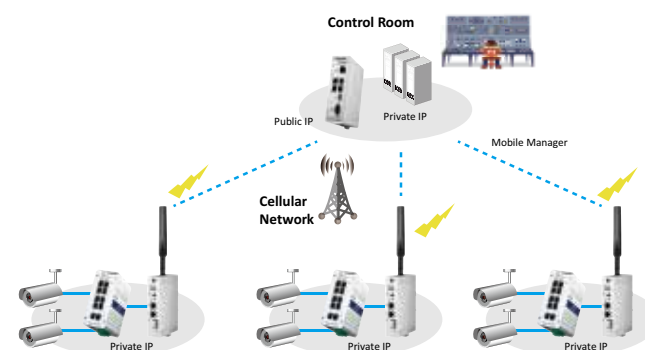
### JetWave Smart Remote(JSR) APP

- Easy way to monitor your WiFi environment
- AP/Client Status Visualization
- Antenna Deployment Assistant



### Korenix Mobile Manager

Korenix Mobile Manager is a simple utility to resolve the issue of mobile devices' inabilities to be accessed from the internet. The utility provides maintenance capacity on the cellular routers. Therefore, it can simplify the inconvenience of remote management.



# Industrial Certificates



**I.T.S/ Road Side**  
Ind. EMC  
NEMA-TS2



**Surveillance/  
Track Board**  
EN50155  
EN50121-2-3/-4



**On Vehicle**  
Ind. EMC  
E-Mark  
ITxPT

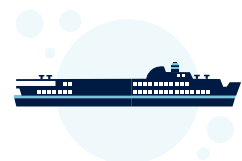
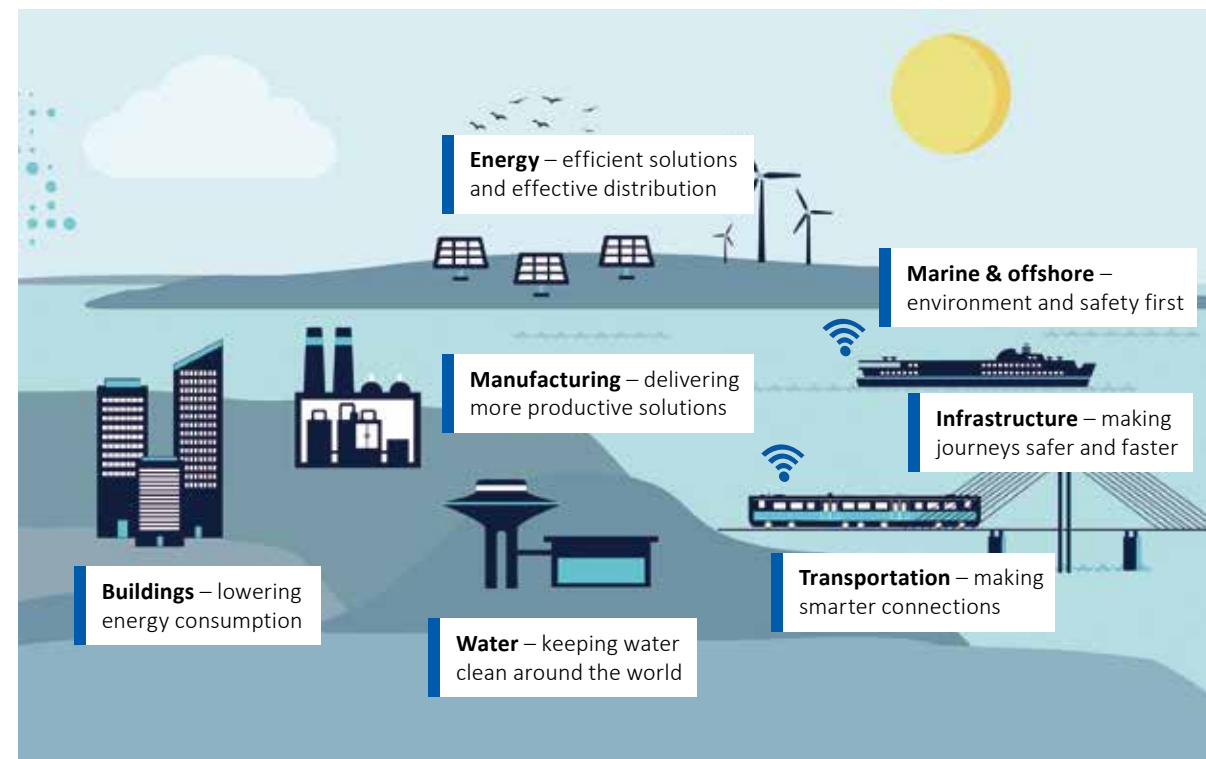


**Petrochemical**  
Ind. EMC  
C1D2



**Power Feeding**  
IEC61850-3  
IEEE1613

# Innovation Solutions for Cross Industry Applications



## Marine

Environmental regulations drive investments in old fleets in need of refurbishment. Globalization and electrification drives new built ships.



## Infrastructure & building

Urbanization, environmental and digitalization is driving investments towards smart infrastructure and buildings, Improving efficiency and utilization.



## Energy

Environmental and green technology drives a fundamental shift to renewable energy production and distributed power delivery.



## Manufacturing

Digitalization and Industry 4.0 is driving modernization of the machines in Manufacturing. Also environmental improvements/ energy efficiency is driving changes in the product offer.

# Application – Smart City



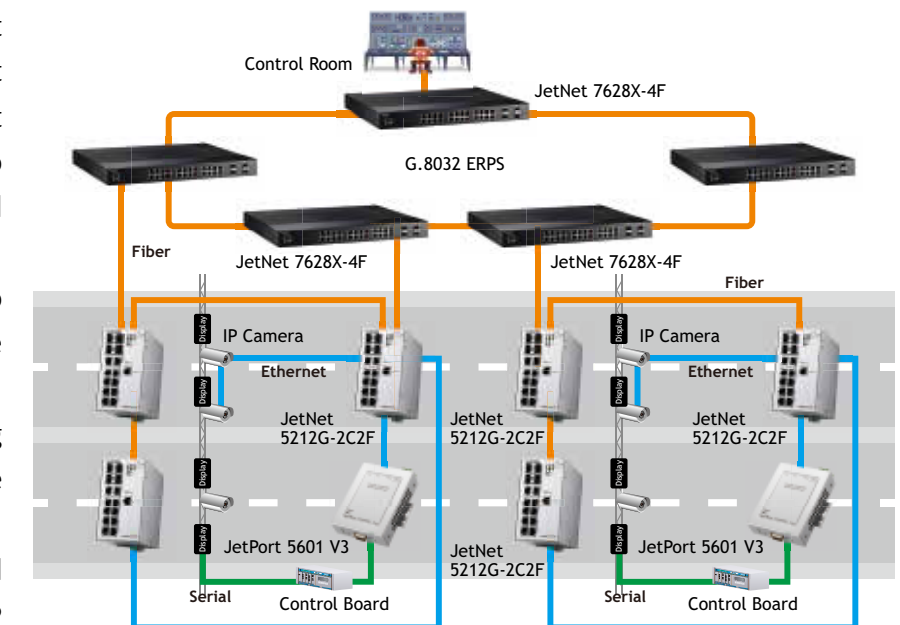
## Sports Complex Surveillance

This application is to manage intelligent transportation system through fiber connection. Korenix provides secure connections with TACACS+, SNMPv3, IEEE802.1x, HTTPS, and SSH to deny unauthorized network access. Also, G.8032 Ring technology provides network redundancy with recovery times in under 50 ms and the topology options offers a backup path and ensure uninterrupted connectivity when link failure occurs. In addition, the wide temperature tolerance (-40 to 75°C) of Korenix products perform reliably without air conditioning in severe operating conditions.

## Korenix Solution

- Provides two Gigabit Ethernet ports for redundant ring and one Gigabit Ethernet port for uplink solution to support massive video and data transmissions.
- ITU-T G.8032 ERPS to minimize network downtime (recovery time < 50 ms).
- Supports IGMP snooping and tagged VLAN for more efficient bandwidth usage
- JetPort series for existing serial devices via Real COM and TCP Server/Client modes.

- All Korenix products are available in wide-temperature (-40 to 75°C) models to provide the durability required for applications.



## Applied Models



**JetNet 7628X-4F**  
Industrial 28G Full GbE with 4\*10G SFP L3 Managed Ethernet Switch



**JetNet 5212G-2C2F**  
Industrial 8G RJ45+ 2G Combo+2G SFP Managed PoE Switch



**JetPort 5601 V3**  
Industrial 1-port RS-232/422/485 Serial Device Server

## Application – Surveillance

### Bus Surveillance

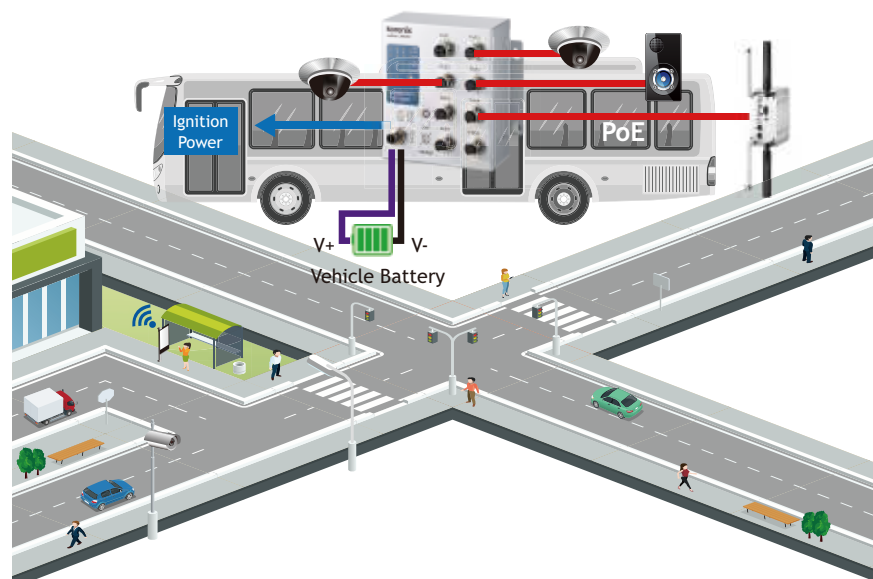
Surveillance in public transportation ensures the safety of passengers and driver, and plays an important role in criminal investigation. PoE camera is commonly used on bus since it can be powered by PoE switch through the Ethernet cable and achieve data transmission. A bus company chose Korenix's E-Mark compliant PoE switch for their project. It is rugged, plug-and-play unmanaged switch equipped with robust M12 connector design in order to be used well in the vibrating environment.

### Korenix Solution

JetNet 3808G-M12 was implemented DC-to-DC power booster technology. It can take power input range from 9 to 36V and boost to 54V to provide stable power feeding for the powered devices. Another special power design for bus application is "power ignition." In a case that only engine is turned off but the entire vehicle system is on, the feature will set the switch automatically power off after

a certain time to prevent the battery from running out.

Certifications includes EN50155, E-Mark and EN50121-4 to ensure high availability and wide usage particularly for bus, train and track side application.



### Applied Models

**JetNet 3808G-M12**  
Industrial  
Unmanaged  
Booster PoE Switch



## Application – Transportation

### Reliable Solution for a Safer Journey

A reliable and tailored railway solution can ensure passenger security. Korenix devices meet multiple railway certificate such as EN50155, EN 50121-4. Also, fast and easy configurations, redundant power supply and rugged outer design, such as extreme operating temperature, M12 interface, waterproof allow your railway project safe and secure.

### Korenix Solution

#### ■ Passenger information system (PIS)

PIS includes in-time and accurate public transportation information and on-board Wi-Fi to passengers. It is an essential part in modern public transportation service.

#### ■ Communication-based train control (CBTC)

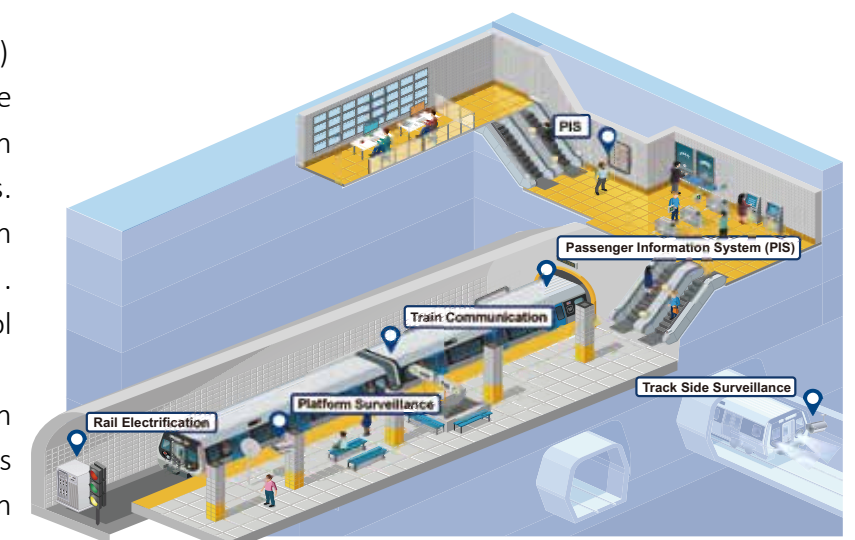
CBTC is a railway communication network system that connects train and trackside information synchronization through network.

#### ■ Rail electrification

Railway electrification system allows transmitting power status from RTU in each sub-station to control center.

#### ■ Platform surveillance / Trackside surveillance

To ensure platform or trackside safety and prevent accidents, it is important for operation team to monitor platforms in control room. Surveillance on the platform integrates various infrastructures such as IP cams, infrared, sensors which allows AI to perform face detection, accident prevention, people counting and etc.



### Recommended Models

**JetNet 5520P-HVDC**  
Industrial 16 FE/16  
PoE, 4GbE, Managed  
L2 PoE Switch



**JetNet 6828Gf Series**  
Industrial 28G L3 Full Gigabit  
Managed Ethernet Switch



**JetWave 3220 V3**  
Industrial Dual  
802.11ac 2.4G/5G  
2T2R MIMO AP



## Application – Industry 4.0



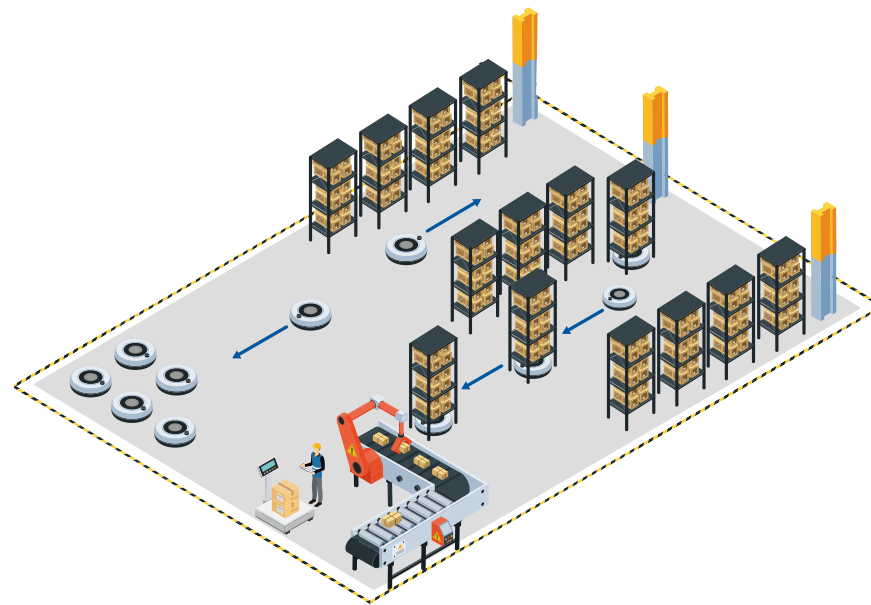
### Automated Warehouse

Automated warehouse reduces the cost, time and accelerates efficiency. It is a good example of new industrial era. AGV(Automated Guided Vehicle) delivers goods through following the wire or marks on the floor in warehouses. It receives instruction, orders and provides the material status and operational condition back to the control center.

### Korenix Solution

An e-commerce company installed Korenix JetWave 2212X on the AGV. The biggest challenge is the roaming reliability. While AGV moving around, the WiFi client will roam to another AP if it is under its network coverage. Faster processing time can reduce packet loss during handover. JetWave was designed with a unique fast roaming mechanism with just 100ms roaming time. Ideal for automated warehousing and mobile related applications.

Another winning point is the compact size of JetWave2212X. It can move easily between the storage racks, and occupied not much space in AGV, which is designed to load goods.



### Applied Models

**JetWave 2212X**  
Industrial 802.11a/b/g/n  
2.4G/5G 2T2R MIMO  
Wireless AP



## Application – IIoT

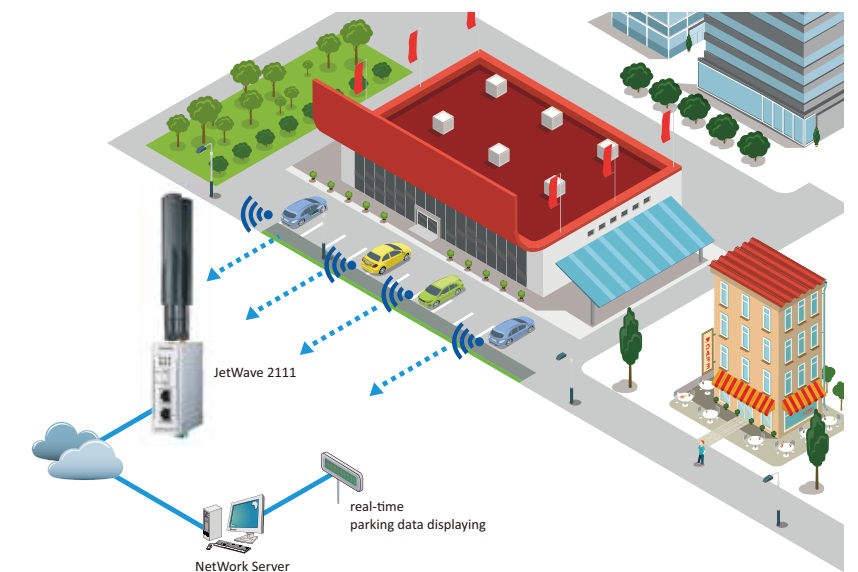


### Smart Parking

Smart parking is a popular topic in each city. Sensors installed in the parking lot to detect the real-time parking status, and the data will be updated to electronic signage. With the instant display of remaining parking spaces, it significantly eased congestion issue and air pollution by guiding drivers directly to find the vacant parking space.

### Korenix Solution

The data needed to be transferred from sensors is tiny. Therefore, JetWave 2111 – Low Data Rate Cellular Router, was chosen as the solution for data transmission. JetWave 2111 come with serial, Ethernet and LTE Cat.1 interfaces. It connected to the field sensors by serial port and transmit the data through LTE network. The LTE Cat.1 is with low bandwidth behavior – 10Mbps for download and 5Mbps for upload. The JetWave product cannot only transmit these small amounts of data stably, but also effectively save cellular communication costs.



### Applied Models

**JetWave 2111**  
Industrial Cellular  
Router/Gateway



## Application – Surveillance



### Taipei Intersection

In a recent collaboration with Taipei City Government in Taiwan, Korenix was asked to provide access points to link outdoor surveillance equipment with the city government's internet.

The impetus for this project hoped to facilitate the wireless transfer of CCTV imagery on intersections in Taipei city to a central control center via a wireless solution, as it is difficult to connect wiring on intersections.

### The Taipei Project

The city government's previous efforts at such transitions had installed equipment attuned for the 2.4Ghz frequency band, which was unfortunately already the primary frequency used by Wi-Fi network providers around the city.

This presented a large amount of interference and leading to instability of Wi-Fi data transmission for CCTV footage from the equipment to the data center, causing footage lag and, sometimes, disconnections.

Korenix offered its JetWave 2460 device as a solution to assist the city government with the transition from physical wiring to wireless. The device is designed to support both 2.4Ghz and 5.8Ghz frequencies and has also in-built Auto Channel Survey (ACS) functions. This function will allow the device to periodically try and detect whether it is on the "best" Wi-Fi frequency and, if it detects a better frequency with less or zero interference, it would automatically switch over to that channel. This would allow the device to function on the best Wi-Fi network possible.

After introducing the JetWave device on-site, the locale's 5.8Ghz was determined to be the frequency that is relatively clean and with minimalist interference. Since its switch to the 5.8Ghz, the network has not seen any disconnections and has met the Taipei City government's expectations of a system providing highly reliable wireless transfers.

### Applied Models

**JetWave 2460**  
Industrial 802.11a/b/g/n  
2.4G/5G 2T2R MIMO  
Outdoor Wireless AP



## Highlight Products – Industrial Switches

### JetNet 5208G / 5210G / 5212G / 5216G Series Industrial Managed Ethernet Switch

- Network Redundancy – MSR (Multiple Super Ring), ITU-T G.8032 ERPS, RSTP, MSTP
- Fully Device Management – SNMP v1/v2c/v3, RMON, Web UI, Telnet and Local Console
- Layer 2 Network Performance – IEEE802.1Q VLAN, Private VLAN, Trunk, Packet Filtering, DHCP Server/Client, Traffic Prioritize, Rate Control
- Advanced Security system by Port Security, Access IP list, SSH, HTTPS Login, TACACS+, DHCP Snooping
- Slim size for installation with minimum spaces required



| Model Name        | Total Ports | 10/100/1000M Base-TX | 100/1000M Combo | 100/1000M SFP |
|-------------------|-------------|----------------------|-----------------|---------------|
| JetNet 5208G      | 8           | 8                    |                 |               |
| JetNet 5208G-2F   | 8           | 6                    |                 | 2             |
| JetNet 5210G-2C   | 10          | 8                    | 2               |               |
| JetNet 5212G-2C2F | 12          | 8                    | 2               | 2             |
| JetNet 5216G-4C4F | 16          | 8                    | 4               | 4             |

JetNet 5208GP / 5210GP / 5212GP / 5216GP Series  
Industrial Managed PoE Switch

- Intelligent PoE features – PD Detection, Port Priority, PoE Schedule...
- Complies with IEEE 802.3bt up to 90W / per port
- Network Redundancy – MSR (Multiple Super Ring), ITU-T G.8032 ERPS, RSTP, MSTP
- Friendly Device and Network Topology recovery utility – Korenix View, Korenix NMS
- Advanced Security system by Port Security, Access IP list, SSH, HTTPS Login, TACACS+, DHCP Snooping

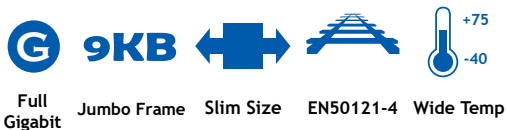


| Model Name           | Total Ports | 10/100/1000M PoE Ports | 10/100/1000M Non-PoE Ports | 100/1000M Combo | 100/1000M SFP | PoE Port | PoE Mode | PoE Power Budget |
|----------------------|-------------|------------------------|----------------------------|-----------------|---------------|----------|----------|------------------|
| JetNet 5208GP        | 8           | 6                      | 2                          |                 |               | # 1~6    | af/at    | 180W             |
| JetNet 5208GP-2F     | 8           | 6                      |                            |                 | 2             | # 1~6    | af/at    | 180W             |
| JetNet 5208GP-U      | 8           | 4                      | 4                          |                 |               | # 1~4    | af/at/bt | 180W             |
| JetNet 5208GP-2F-U   | 8           | 4                      | 2                          |                 | 2             | # 1~4    | af/at/bt | 180W             |
| JetNet 5210GP-2C     | 10          | 8                      |                            | 2               |               | # 1~8    | af/at    | 240W             |
| JetNet 5210GP-2C-U   | 10          | 8                      |                            | 2               |               | # 1~8    | af/at/bt | 480W             |
| JetNet 5212GP-2C2F   | 12          | 8                      |                            | 2               | 2             | # 1~8    | af/at    | 240W             |
| JetNet 5212GP-2C2F-U | 12          | 8                      |                            | 2               | 2             | # 1~8    | af/at/bt | 480W             |
| JetNet 5216GP-4F     | 16          | 12                     |                            |                 | 4             | # 1~12   | af/at    | 360W             |
| JetNet 5216GP-4F-U   | 16          | 12                     |                            |                 | 4             | # 1~12   | af/at/bt | 480W             |

JetNet 3205G / 3205GP Series  
Industrial Full Gigabit Unmanaged Switch

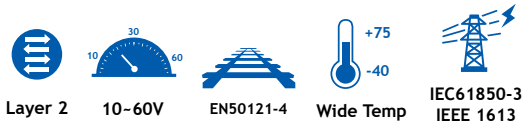
- 4 PoE ports compliance with IEEE802.3af/at standard with total power budget 112W (JetNet 3205GP series)
- Industrial Slim Size Design
- 9K bytes Jumbo Frame for large file transmission
- Power Event Alarm

| Model Name       | 10/100/1000 Base-TX | 1000 Base-FX |
|------------------|---------------------|--------------|
| JetNet 3205G     | 5                   |              |
| JetNet 3205GP    | 5 ( 4 PoE )         |              |
| JetNet 3205G-1F  | 4                   | 1            |
| JetNet 3205GP-1F | 4 ( 4 PoE )         | 1            |



JetNet 4508 series  
Industrial 8-port Managed Switch

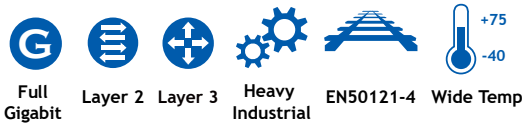
- 1.6 Gbps Non-Blocking, 8K MAC address table
- MSR (recovery time <5ms), Rapid Dual Homing, Multiple Ring, MSTP / RSTP
- Dual 10~60VDC Power Redundancy
- -40~75°C Wide Temperature operating (“-w” model)
- IEC 61850-3/IEEE 1613 Certification (“i” model)



| Model Name             | 10/100 Base-TX | Fiber Ports  | Remark                                    |
|------------------------|----------------|--------------|-------------------------------------------|
| JetNet 4508/4508-w     | 8              |              |                                           |
| JetNet 4508i/4508i-w   | 8              |              | Power isolation, IEC61850-3 Certification |
| JetNet 4508f/4508f-w   | 6              | 2 FX (SC/ST) |                                           |
| JetNet 4508if/4508if-w | 6              | 2 FX (SC/ST) | Power isolation, IEC61850-3 Certification |

JetNet 5612G / 7612G Series  
Industrial 8 GE + 4 G SFP Managed Switch

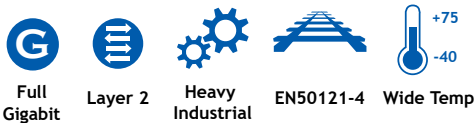
| Model Name       | 10/100/1000 Base-TX | Giga Ports | Power Budget | Remark  |
|------------------|---------------------|------------|--------------|---------|
| JetNet 5612G-4F  | 8                   | 4 SFP      | Non-PoE      | Layer 2 |
| JetNet 7612G-4F  | 8                   | 4 SFP      | Non-PoE      | Layer 3 |
| JetNet 5612GP-4F | 8                   | 4 SFP      | 240w         | Layer 2 |
| JetNet 7612GP-4F | 8                   | 4 SFP      | 240w         | Layer 3 |



JetNet 5620G-4C  
Industrial Full Gigabit Ethernet L2 Switch

- 16G RJ + 4 Gigabite RJ/SFP combo ports
- Advanced Security system by Port Security, Access IP list, SSH, HTTPS Login, IEEE 802.1x / Radius Server authentication
- Advanced management by LACP/VLAN/GVRP/QoS/IGMP/ Private VLAN/QinQ/Snooping/Rate Control/Online Multi-Port Mirroring/DHCP

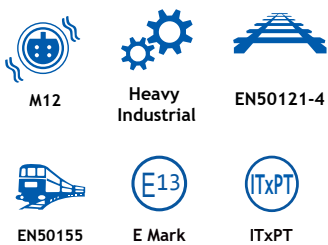
| Model Name      | 10/10/1000 Base-TX | Giga Ports | Power Budget | Remark  |
|-----------------|--------------------|------------|--------------|---------|
| JetNet 5620G-4C | 16                 | 4 Combo    | Non-PoE      | Layer 2 |



JetNet 3508 / 3808 / 3908 Series  
Industrial M12 Un-Managed Switch

- M12-A power interface
- Power ignition management
- -40 to 75°C Operating Temperature

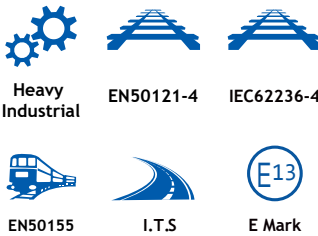
| Model Name        | 10/100 Base-TX | 1000 Base-TX | Power Budget | Remark              |
|-------------------|----------------|--------------|--------------|---------------------|
| JetNet 3908G-M12  |                | 8            | 180 W        | Booster PoE support |
| JetNet 3808G-M12  | 7              | 1            | 120 W        | Booster PoE support |
| JetNet 3508-LVDC  | 7              | 1            |              | By request          |
| JetNet 3508G-LVDC |                | 8            |              | By request          |



JetNet 5500 / 7500 Series  
Industrial M12 Managed PoE Switch

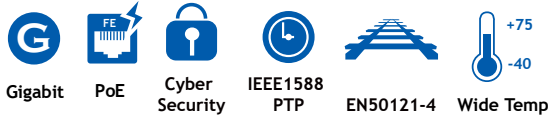
- Push-pull and typical M12 connector coexistence
- 1 pair GbE HW Bypass embedded
- Layer 3 IP routing table: 512
- IP Rating: 41 (IP54 by request)

| Model Name        | Layer | 100TX PSE Ports | Gigabit Ports | Power Input | Power Budget |
|-------------------|-------|-----------------|---------------|-------------|--------------|
| JetNet 7520P-LVDC | 3     | 16              | 4             | 10~57V      | 100W         |
| JetNet 7516P-LVDC |       | 12              |               |             |              |
| JetNet 7512P-LVDC |       | 8               |               |             |              |
| JetNet 7520P-HVDC |       | 16              |               | 77~137.5V   | 120W         |
| JetNet 7516P-HVDC |       | 12              |               |             |              |
| JetNet 7512P-HVDC |       | 8               |               |             |              |
| JetNet 5520P-LVDC | 2     | 16              |               | 10~57V      | 100W         |
| JetNet 5516P-LVDC |       | 12              |               |             |              |
| JetNet 5512P-LVDC |       | 8               |               |             |              |
| JetNet 5520P-HVDC |       | 16              |               | 77~137.5V   | 120W         |
| JetNet 5516P-HVDC |       | 12              |               |             |              |
| JetNet 5512P-HVDC |       | 8               |               |             |              |



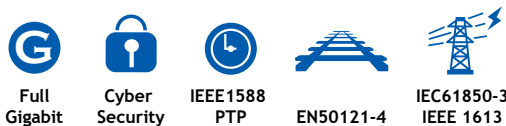
JetNet 5728G  
Industrial 20FE+8G Managed PoE  
Ethernet Switch

- Advanced Cyber Redundancy – MSR, SuperChain, ITU-T G.8032 ERPS
- Isolated redundant power inputs with VDC power or 110/220 VAC power



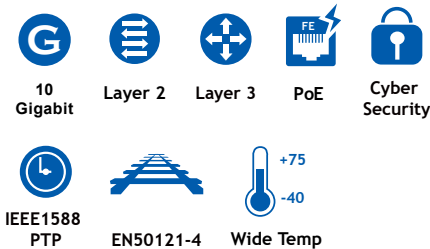
JetNet 6828Gf  
Industrial 16G + 8G Combo + 4G SFP  
Gigabit Managed Switch

- 16 100/1000TX, 8 100/1000 RJ-45/SFP combo ports, 4 Gigabit SFP ports
- Advanced L3 – Static Routing, Dynamic Routing: RIP V1/V2, OSPF V1/V2, VRRP V2
- Advanced Cyber Redundancy –MSR, ERPS, RSTP, MSTP, SuperChain
- -40 to 85°C Operating Temperature



JetNet 6628X / 7628X series  
Industrial 10G Rackmount Switch

- 24 100/1000Base-TX + 4 10 Gigabit SFP ports
- Diverse product portfolio including L2/L3, PoE/Non-PoE
- L3 function: static route, RIP v1/v2, OSPF v1/v2, VRRP v2 (JetNet 7628X series)
- 24-port IEEE802.3 af/at PoE (PoE models)
- -40 to 75°C operating temperature, fanless



| Model Name       | Layer | PoE     |
|------------------|-------|---------|
| JetNet 6628XP-4F | L2    | PoE     |
| JetNet 7628XP-4F | L3    | PoE     |
| JetNet 6628X-4F  | L2    | Non-PoE |
| JetNet 7628X-4F  | L3    | Non-PoE |

Highlight Products – Industrial Media Converters

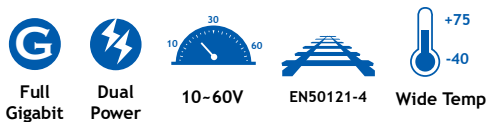
JetCon 3701GP-U  
Industrial IEEE 802.3bt Gigabit PoE Media Converter

- Converts 10/100/1000TX to 100/1000 Fiber
- IEEE 802.3af/at/bt Compliance
- Flexible SFP Fiber transceiver design
- Slim Case with IP-31 grade protection
- Fault Alert for power
- Power Redundancy with 44~57V wide voltage input



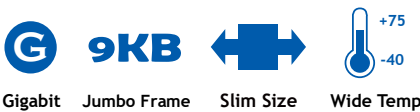
JetCon 3701G  
Industrial Gigabit Ethernet PoE Media Converter

- Converts 10/100/1000TX to 100/1000FX
- Flexible SFP Fiber transceiver design
- High Power 30W PoE PSE Media Converter
- IEEE 802.3af / IEEE 802.3at Compliance
- Fault Alert for power
- Two way Link Loss Forwarding



JetCon 1701GP-U  
Industrial Gigabit High Power PoE Injector

- 10/100/1000TX 1-port PoE Injector
- High Power 90W PoE power output
- IEEE 802.3af/at/bt Compliance
- Slim Case with IP-31 grade protection
- Industrial Slim Size Design
- Power Redundancy with 44~57V voltage input



# Highlight Products – Wireless Solution

## JetWave 2212 Series Industrial Wireless AP/Client

- 2T2R MIMO doubles data rate up to 300Mbps (JetWave2212G up to 867Mbps)
- Dual 24V DC Redundant
- 1 x Digital input design

| Model Name    | WIFI Standard     | Ethernet Ports | Serial Port                       |
|---------------|-------------------|----------------|-----------------------------------|
| JetWave 2212X | 802.11 a/b/g/n    | 2x FE          |                                   |
| JetWave 2212S | 802.11 a/b/g/n    | 2x FE          | 2 x Serial (RS232/422/485 3 in 1) |
| JetWave 2212G | 802.11 a/b/g/n/ac | 2x GbE         |                                   |



## JetWave 2111/2111L/2411/2411L JetWave 2114/2414 Industrial LTE Cellular Gateway

- 24V DC power input
- Passive PoE(JW2114/2414)
- GPS (Optional) (JW 2111/2114/2411/2414)

| Model Name    | LTE Category                 | Fast Ethernet Ports | RS 232/422/485 | DI + DO     | SIM Card | Micro SD card slot | Housing  |
|---------------|------------------------------|---------------------|----------------|-------------|----------|--------------------|----------|
| JetWave 2111  | Cat 1 (max. 10M DL/5M UL )   | 1                   | 1              | 1 DI + 1 DO | 1        | 1                  | Aluminum |
| JetWave 2411  | Cat 4 (max. 150M DL/50M UL ) | 1                   | 1              | 1 DI + 1 DO | 1        | 1                  |          |
| JetWave 2114  | Cat 1 (max. 10M DL/5M UL )   | 4                   | 2              | 2 DI + 2 DO | 2        | 1                  |          |
| JetWave 2414  | Cat 4 (max. 150M DL/50M UL ) | 4                   | 2              | 2 DI + 2 DO | 2        | 1                  |          |
| JetWave 2111L | Cat 1 (max. 10M DL/5M UL )   | 1                   |                | 1 DI + 1 DO | 1        |                    | Metal    |
| JetWave 2411L | Cat 4 (max. 150M DL/50M UL ) | 1                   |                | 1 DI + 1 DO | 1        |                    |          |



## JetWave 4110L Industrial LoRa Private Gateway

- LoRa Wireless data link provide stable data stream.
- High output RF Power and high sensitivity provide more than 40KM transmission distance.
- Multi-Interface support RS-485 / Analog or Digital Input / Digital Output.
- Resist the water, dust, temperature and shock and meet with the IP68 standard.
- Analog Input support 0~10 V / 4~20 mA / ADC
- Digital Output support PWM / Latch Mode.
- AUX I/O support remote setup/status inquiry function.



## JetWave 2460/2460E Industrial 802.11a/b/g/n 2.4G/5G 2T2R MIMO Outdoor Wireless AP

- Radio configurable: 802.11 a/b/g/n 2.4G/5G Band
- 802.11n 2T2R MIMO doubles data rate up to 300Mbps
- Remote management by Web GUI
- Passive PoE (24V/48V) power input
- Wide Temperature, Heavy Industrial Grade design
- Outdoor IP67 design

| Model Name    | WIFI Standard         | Wifi    | Ethernet port |
|---------------|-----------------------|---------|---------------|
| JetWave 2460  | With embedded antenna | 2.4G/5G | 1 x FE (RJ45) |
| JetWave 2460E | With external antenna | 2.4G/5G | 1 x FE (RJ45) |



JetWave 4200 Series  
Industrial High Power Dual/Single 802.11 a/b/  
g/n/ac 2.4G/5G 2T2R MIMO Wireless AP

- Dual /Single Radio Configurable: 802.11 a/b/g/n/ac and 2.4G/5G Band
- 802.11ac 2T2R MIMO doubles data rate up to 866mbps
- Industrial IP67
- Gigabit PoE+ power input
- 48V PoE PD Power Input

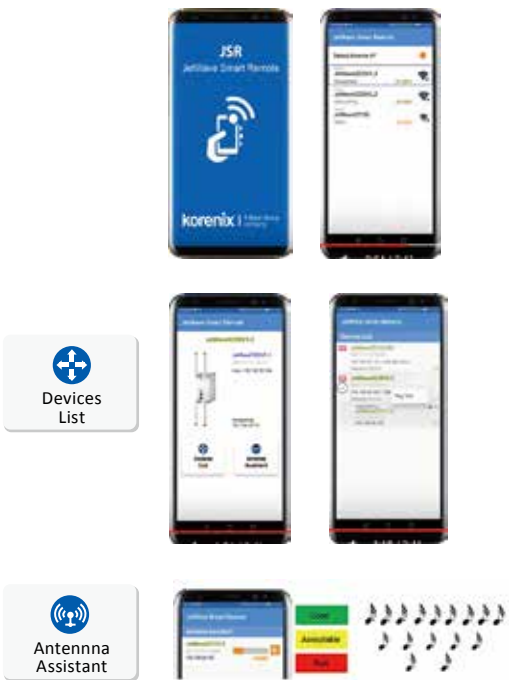


| Model Name            | Radio | Wifi              | Ethernet port | Ethernet port | Antenna                              |
|-----------------------|-------|-------------------|---------------|---------------|--------------------------------------|
| JetWave 4221HP-E      | 1     | 1 x 2.4G + 1 x 5G | 1 x GE (RJ45) | High Power    | External antenna<br>(Buy separately) |
| JetWave 4221-E        | 1     | 2 x 2.4G/5G       | 1 x GE (RJ45) | Normal Power  |                                      |
| JetWave 4211HP-5G-E   | 1     | 1 x 5G            | 1 x GE (RJ45) | High Power    |                                      |
| JetWave 4211HP-2.4G-E | 1     | 1 x 2.4G          | 1 x GE (RJ45) | High Power    |                                      |
| JetWave 4211-E        | 1     | 1 x 2.4G/5G       | 1 x GE (RJ45) | Normal Power  |                                      |

JSR- JetWave Smart Remote App

- An easy management tool from installing to trouble-shooting simply with App on your mobile
- Automatically detect all nearby Korenix AP and client devices
  - Check all AP/client connection status or package loss rate with only a few clicks
  - Adjust antennas to the best angle effortlessly

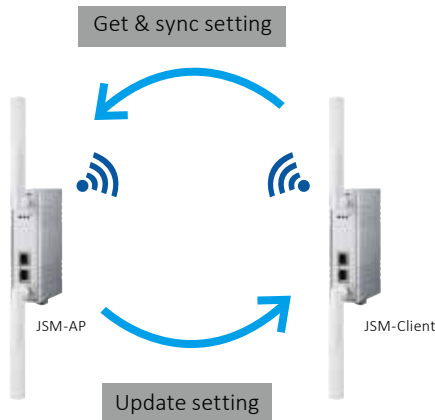
To learn more information,  
please check Korenix website:



JSM (JetWave Smart Mapping)  
A Rapid Way for Wireless Network Deployment

Korenix JSM is an useful technology to simplify the software setting steps during installation phase. The JetWave unit which is configured as JSM-Client will sync wireless parameters from the connected JSM-AP. It not only saves setup time but also ensures corresponding settings between AP and CPE.

The JSM-AP unit periodically analyzes the signal strength of frequency range and then set the optimal channel by itself. The update time is configurable from 60 sec. to 86400 sec. (a day).



Typical Wi-Fi Mode

| Wireless Mode | WLAN Basic & Security Settings                                                                                                                                                                                                                                                                                      |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wi-Fi AP      | Manually<br>User must manual adjust another wireless channel once the operating frequency with serious signal interference.                                                                                                                                                                                         |
| Wi-Fi Client  | Manually<br>Step 1. Execute “Site Survey” and select and select a target AP for CONNECTION<br>Step 2. System apply the same “802.11 Mode” setting automatically. (Form AP)<br>Step 3. Manual configure “Channel Mode”. (Follow AP’s setting)<br>Step 4. Manual configure “Security Settings”. (Follow AP’s setting) |

Efficient JSM Mode

| Wireless Mode | WLAN Basic & Security Settings                                                           |
|---------------|------------------------------------------------------------------------------------------|
| JSM-AP        | Manually<br>System actively applies the best wireless channel.                           |
| JSM-Client    | Automatically<br>Connect to JSM-AP without manual selection and sync parameters from it. |

Sync range

- ✓ SSID
- ✓ 802.11 Mode
- ✓ Channel Mode
- ✓ Authentication
  - \* Encryption
  - \* WPAW Passphrase



JetNet 7628X-4F



JetNet 6828Gf  
(-AC/2AC/2DC24/  
2DC48/AC-DC24)



JetNet 6628X-4F



JetNet 6528Gf  
(-AC/2AC/2DC24/  
2DC48/AC-DC24)



JetNet 5428G V2-AC  
JetNet 5428G V2-2DC



JetNet 5428G-20SFP-AC  
JetNet 5428G-20SFP-2DC



JetNet 7612G-4F



JetNet 7020G



JetNet 7014G V2



JetNet 6059G  
JetNet 6059G-w



JetNet 5620G-4C



JetNet 5612G-4F

| Rackmount Gigabit Core Switches                   |                                      |                                                      |                      | Rackmount Ethernet Switches               |                            |                            |
|---------------------------------------------------|--------------------------------------|------------------------------------------------------|----------------------|-------------------------------------------|----------------------------|----------------------------|
| Interface                                         |                                      |                                                      |                      |                                           |                            |                            |
| Total ports number                                | 28                                   | 28                                                   | 28                   | 28                                        | 28                         | 28                         |
| 10/100TX Ports                                    |                                      |                                                      |                      |                                           | 24                         | 8                          |
| 10/100/1000TX Ports                               | 24                                   | 16                                                   | 24                   | 16                                        |                            |                            |
| 100/1000M Combo                                   |                                      | 8                                                    |                      | 8                                         | 4                          | 4                          |
| SFP Ports                                         | 4 x 10GbE/1G                         | 4 x 1000M                                            | 4 x 10GbE/1G         | 4 x 1000M                                 |                            | 16 x 100M                  |
| Console/USB                                       | RS232/USB                            | RS232/USB                                            | RS232/USB            | RS232/USB                                 | RS232/USB                  | RS232/USB                  |
| DC Power input                                    | 2x44-57VDC                           | DC24(18-36VDC)<br>DC48(36-75VDC)                     | 2x44-57VDC           | DC24(18-36VDC)<br>DC48(36-75VDC)          | 2 x DC24/48 (18-75VDC)     | 2x DC24/48V(18-75VDC)      |
| AC Power input                                    | 1x90-264 VAC                         | AC110/220<br>(90-264VAC)                             | 1x90-264 VAC         | AC110/220<br>(90-264VAC)                  | 1xAC110/220<br>(90-264VAC) | 1xAC110/220<br>(90-264VAC) |
| Features                                          |                                      |                                                      |                      |                                           |                            |                            |
| MSR, MultiRing, TrunkRing, RDH SuperChain, ERPS   | ●                                    | ●                                                    | ●                    | ●                                         | ●                          | ●                          |
| Broadcast Storm/Loop Protection                   | ●                                    | ●                                                    | ●                    | ●                                         | ●                          | ●                          |
| L2+ Security (L2/3/4 ACL)                         | ●                                    | ●                                                    | ●                    | ●                                         | ●                          | ●                          |
| DHCP Server (Opt82, Port Based)                   | ●                                    | ●                                                    | ●                    | ●                                         | ●                          | ●                          |
| korenix View / korenix NMS                        | ●                                    | ●                                                    | ●                    | ●                                         | ●                          | ●                          |
| L3 Protocols                                      |                                      |                                                      |                      |                                           |                            |                            |
| L3 Routing                                        | IPv4/IPv6 routing, RIPv1/v2, OSFP v2 | static/Dynamic Routing/<br>VLAN routing RIP, OSFP v2 |                      |                                           |                            |                            |
| Multicast Routing                                 | IGMP, Mroute                         | IGMP, Mroute                                         |                      |                                           |                            |                            |
| VRRP Gateway Redundancy                           | ●                                    | ●                                                    |                      |                                           |                            |                            |
| SW/Protocol                                       |                                      |                                                      |                      |                                           |                            |                            |
| IPv6 Management                                   | ●                                    | ●                                                    | ●                    | ●                                         | ●                          | ●                          |
| RSTP/MSTP                                         | ●                                    | ●                                                    | ●                    | ●                                         | ●                          | ●                          |
| Traffic Priority (QoS)                            | 8 Queues/port                        | 8 Queues/port                                        | 8 Queues/port        | 8 Queues/port                             | 8 Queues/port              | 8 Queues/port              |
| VLAN,P-VLAN, QinQ, GVRP                           | 4k VLANs                             | 4k VLANs                                             | 4k VLANs             | 4k VLANs                                  | 4k VLANs                   | 4k VLANs                   |
| IGMP Query, Snooping, GMRP                        | ●                                    | ●                                                    | ●                    | ●                                         | ●                          | ●                          |
| IEEE 802.1AB LLDP Network Discovery               | ●                                    | ●                                                    | ●                    | ●                                         | ●                          | ●                          |
| IEEE 802.3ad LACP, Static Trunk                   | ●                                    | ●                                                    | ●                    | ●                                         | ●                          | ●                          |
| IEEE 1588 PTP v1/v2                               | ●                                    | ●                                                    | ●                    | ●                                         | ●                          | ●                          |
| Jumbo Frame/MAC Address                           | 9.2Kbytes/16K                        | 9.2Kbytes/16K                                        | 9.2Kbytes/16K        | 9.2Kbytes/16K                             | 9.2Kbytes/16K              | 9.2Kbytes/16K              |
| Port Mirroring                                    | ●                                    | ●                                                    | ●                    | ●                                         | ●                          | ●                          |
| DDM SFP                                           | ●                                    | ●                                                    | ●                    | ●                                         | ●                          | ●                          |
| IEEE 802.1x, IP/Port SecuritySSL/HTTPS,SSH/Telnet | ●                                    | ●                                                    | ●                    | ●                                         | ●                          | ●                          |
| TACACS+, Radius                                   | ●                                    | ●                                                    | ●                    | ●                                         | ●                          | ●                          |
| Ind. Protocol (ModBus/TCP,EtherNet/IP)            | ●                                    | ●                                                    | ●                    | ●                                         | ●                          | ●                          |
| SNMP/RMON/Trap                                    | ●                                    | ●                                                    | ●                    | ●                                         | ●                          | ●                          |
| CLI/Web/Telnet                                    | ●                                    | ●                                                    | ●                    | ●                                         | ●                          | ●                          |
| HW/ME                                             |                                      |                                                      |                      |                                           |                            |                            |
| Housing Protection (IP)                           | IP40                                 | IP40                                                 | IP40                 | IP40                                      | IP30                       | IP40                       |
| Dimension (HxWxD mm)                              | 44 x 440 x 378.5                     | 44 x 440 x 378.5                                     | 44 x 440 x 378.5     | 44 x 438 x 375                            | 44 x 438 x 170             | 43.6 x 431 x 375           |
| Mounting                                          | Rackmount                            | Rackmount                                            | Rackmount            | Rackmount                                 | Rackmount                  | Rackmount                  |
| Operating Temperature                             | -40~75°C                             | -40~85°C                                             | -40~75°C             | -40~75°C                                  | -40~75°C                   | -40~75°C                   |
| MTBF (hrs)                                        | >202,000                             | >445,000                                             | >202,000             | >445,000                                  | >234,000                   | >234,000                   |
| Certification                                     |                                      |                                                      |                      |                                           |                            |                            |
| Regulatory/Approval                               | CE/FCC/<br>EN50121-4                 | CE/FCC/EN50121-4<br>/IEEE1613 /IEC61850-3            | CE/FCC/<br>EN50121-4 | CE/FCC/EN50121-4<br>/IEEE1613 /IEC61850-3 | CE/FCC/UL/<br>NEMA TS2     | CE/FCC/<br>EN50121-4       |

● Supported

DIN-Rail Managed Ethernet Switches

| Interface                                                                              |                     |                                             |                     |                       |                                             |                     |
|----------------------------------------------------------------------------------------|---------------------|---------------------------------------------|---------------------|-----------------------|---------------------------------------------|---------------------|
| Total ports number                                                                     | 12                  | 20                                          | 14                  | 9                     | 20                                          | 12                  |
| 10/100TX Ports                                                                         |                     |                                             |                     |                       |                                             |                     |
| 10/100/1000TX Ports                                                                    | 8                   | 16                                          | 10                  | 4                     | 16                                          | 8                   |
| 100/1000M Combo                                                                        |                     | 4                                           |                     | 5                     | 4                                           |                     |
| SFP Ports                                                                              | 4 x 100/1000M       |                                             | 4 x 100/1000M       |                       |                                             | 4 x 100/1000M       |
| DI/DO (Dry Relay)                                                                      | 1 DI, 1 DO          | 1 DI, 1 DO                                  | 1 DI, 1 DO          | 1 DI, 1 DO            | 1 DI, 1 DO                                  | 1 DI, 1 DO          |
| DC Power Input                                                                         | 2 x DC24 (10-36VDC) | 2 x DC24V (10-60V)                          | 2 x DC24 (10-36V)   | 2 x DC24V (10.5-60V)  | 2 x DC24V (10-60V)                          | 2 x DC24 (10-36V)   |
| Console                                                                                | RS-232              | RS-232                                      | RS-232              | RS-232                | RS-232                                      | RS-232              |
| Features                                                                               |                     |                                             |                     |                       |                                             |                     |
| Network Redundancy (MSR, RDH, TrunkRing, MultiRing, SuperChain, ERPS, RSTP, MSTP,LACP) | ●                   | ●                                           | ●                   | ●                     | ●                                           | ●                   |
| Broadcast Storm/Loop Protection                                                        | ●                   | ●                                           | ●                   | ●                     | ●                                           | ●                   |
| Advnced Security (L2/3/4 ACL) DHCP Snooping, IP Source Guard, DAI)                     | ●                   | ●                                           | ●                   |                       | ●                                           | ●                   |
| DHCP Server (Opt82, Port Based)                                                        | ●                   | ●                                           | ●                   | ●                     | ●                                           | ●                   |
| Korenix View/Korenix NMS                                                               | ●                   | ●                                           | ●                   | ●                     | ●                                           | ●                   |
| SW/Protocol                                                                            |                     |                                             |                     |                       |                                             |                     |
| IPv6 Management                                                                        | ●                   | ●                                           | ●                   |                       | ●                                           | ●                   |
| RSTP/MSTP                                                                              | ●                   | ●                                           | ●                   | ●                     | ●                                           | ●                   |
| Traffic Priority (QoS)                                                                 | ●                   | ●                                           | ●                   | ●                     | ●                                           | ●                   |
| VLAN, P-VLAN, QinQ, GVRP                                                               | ●                   | ●                                           | ●                   | ●                     | ●                                           | ●                   |
| IGMP Query, Snooping, GMRP                                                             | ●                   | ●                                           | ●                   | ●                     | ●                                           | ●                   |
| IEEE802.1AB LLDP Network Discovery                                                     | ●                   | ●                                           | ●                   | ●                     | ●                                           | ●                   |
| IEEE802.3ad LACP, Static Trunk                                                         | ●                   | ●                                           | ●                   | ●                     | ●                                           | ●                   |
| IEEE 1588 PTP v1                                                                       | ●                   | ●                                           | ●                   | ●                     | ●                                           | ●                   |
| Jumbo Frame                                                                            | ●                   | ●                                           | ●                   |                       | ●                                           | ●                   |
| Port Mirroring                                                                         | ●                   | ●                                           | ●                   | ●                     | ●                                           | ●                   |
| DDM SFP                                                                                | ●                   | ●                                           | ●                   | ●                     | ●                                           | ●                   |
| IP Security/Port Security/SSL/HTTPS/SSH/Telnet                                         | ●                   | ●                                           | ●                   | ●                     | ●                                           | ●                   |
| User Security                                                                          | ●                   | ●                                           | ●                   | ●                     | ●                                           | ●                   |
| Ind. Protocol (ModBus TCP, Ethernet /IP)                                               | ●                   | ●                                           | ●                   | ●                     | ●                                           | ●                   |
| SNMP/RMON/ Trap                                                                        | ●                   | ●                                           | ●                   | ●                     | ●                                           | ●                   |
| CLI/Web/Telnet                                                                         | ●                   | ●                                           | ●                   | ●                     | ●                                           | ●                   |
| HW/ME                                                                                  |                     |                                             |                     |                       |                                             |                     |
| Housing Protection (IP)                                                                | IP31/Aluminum       | IP31/Aluminum                               | IP31/Aluminum       | IP31/Aluminum         | IP31/Aluminum                               | IP31/Aluminum       |
| Dimension (HxWxD mm)                                                                   | 160 x 84 x 136      | 147 x 98 x 126                              | 160 x 108 x 136     | 160 x 95 x 127        | 147 x 98 x 126                              | 160 x 84 x 136      |
| Mounting                                                                               | DIN Rail            | DIN Rail                                    | DIN Rail            | DIN Rail              | DIN Rail                                    | DIN Rail            |
| Operating Temperature                                                                  | -40~75°C            | -40~75°C                                    | -40~75°C            | -25~70°C/-40~75°C(-w) | -40~75°C                                    | -40~75°C            |
| MTBF (hrs)                                                                             | 578,000             | 308,000                                     | 578,000             | 425,000               | 308,000                                     | 578,000             |
| Certification                                                                          |                     |                                             |                     |                       |                                             |                     |
| Regulatory/Approval                                                                    | CE/FCC/UL/EN50121-4 | CE/FCC/UL/EN50121-4/<br>IEEE1613/IEC61850-3 | CE/FCC/UL/EN50121-4 | CE/FCC/UL/NEMA(-w)    | CE/FCC/UL/EN50121-4/<br>IEEE1613/IEC61850-3 | CE/FCC/UL/EN50121-4 |
| Compliance Standard                                                                    | Heavy Ind. EMC      | Heavy Ind. EMC                              | Heavy Ind. EMC      | Heavy Ind. EMC        | Heavy Ind. EMC                              | Heavy Ind. EMC      |

● Supported



JetNet 5208



JetNet 5208-2F



JetNet 5208G



JetNet 5208G-2F



JetNet 5210G-2C



JetNet 5212G-2C2F



JetNet 5216G-4C4F

| DIN-Rail Managed Ethernet Switches                                                      |                    |                    |                    |                    |                    |                    |                    |
|-----------------------------------------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Interface                                                                               |                    |                    |                    |                    |                    |                    |                    |
| Total ports number                                                                      | 8                  | 8                  | 8                  | 8                  | 10                 | 12                 | 16                 |
| 10/100TX Ports                                                                          | 8                  | 6                  |                    |                    |                    |                    |                    |
| 10/100/1000TX Ports                                                                     |                    |                    | 8                  | 6                  | 8                  | 8                  | 8                  |
| 100/1000M Combo                                                                         |                    |                    |                    |                    | 2                  | 2                  | 4                  |
| SFP Ports                                                                               |                    | 2 x 100/1000M      |                    | 2 x 100/1000M      |                    | 2 x 100/1000M      | 4 x 100/1000M      |
| DI/DO (Dry Relay)                                                                       | 1 DI, 1 DO         | 1 DI, 1 DO         | 1 DI, 1 DO         | 1 DI, 1 DO         | 1 DI, 1 DO         | 1 DI, 1 DO         | 1 DI, 1 DO         |
| DC Power Input                                                                          | 2 x DC24V (10-60V) | 2 x DC24V (10-60V) | 2 x DC24V (10-60V) | 2 x DC24V (10-60V) | 2 x DC24V (10-60V) | 2 x DC24V (10-60V) | 2 x DC24V (10-60V) |
| Console                                                                                 | RS-232             | RS-232             | RS-232             | RS-232             | RS-232             | RS-232             | RS-232             |
| Features                                                                                |                    |                    |                    |                    |                    |                    |                    |
| Network Redundancy (MSR, RDH, TrunkRing, MultiRing, SuperChain, ERPS, RSTP, MSTP, LACP) | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  |
| Broadcast Storm/ Loop Protection                                                        | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  |
| Advnced Security (L2/3/4 ACL) DHCP Snooping, IP Source Guard, DAI)                      | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  |
| DHCP Server (Opt82, Port Based)                                                         | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  |
| korneix View                                                                            | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  |
| SW/Protocol                                                                             |                    |                    |                    |                    |                    |                    |                    |
| IPv6 Management                                                                         | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  |
| RSTP/MSTP                                                                               | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  |
| Traffic Priority (QoS)                                                                  | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  |
| VLAN, P-VLAN, QinQ, GVRP                                                                | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  |
| IGMP Query, Snooping, GMRP                                                              | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  |
| IEEE802.1AB LLDP Network Discovery                                                      | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  |
| IEEE802.3ad LACP, Static Trunk                                                          | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  |
| IEEE 1588 PTP v1                                                                        | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  |
| Jumbo Frame                                                                             | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  |
| Port Mirroring                                                                          | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  |
| DDM SFP                                                                                 | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  |
| IP Security/Port Security/SSL/HTTPS/SSH/Telnet                                          | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  |
| User Security                                                                           | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  |
| Ind. Protocol (ModBus TCP, Ethernet /IP)                                                | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  |
| SNMP/RMON/ Trap                                                                         | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  |
| CLI/Web/Telnet                                                                          | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  | ●                  |
| HW/ME                                                                                   |                    |                    |                    |                    |                    |                    |                    |
| Housing Protection (IP)                                                                 | IP31/Aluminum      | IP31/Aluminum      | IP31/Aluminum      | IP31/Aluminum      | IP31/Aluminum      | IP31/Aluminum      | IP31/Aluminum      |
| Dimension (HxWxD mm)                                                                    | 135 x 50 x 120     | 135 x 50 x 120     | 135 x 50 x 120     | 135 x 50 x 120     | 135 x 74 x 132     | 135 x 74 x 132     | 189 x 96 x 132     |
| Mounting                                                                                | DIN Rail           | DIN Rail           | DIN Rail           | DIN Rail           | DIN Rail           | DIN Rail           | DIN Rail           |
| Operating Temperature                                                                   | -40~75°C           | -40~75°C           | -40~75°C           | -40~75°C           | -40~75°C           | -40~75°C           | -40~75°C           |
| MTBF (hrs)                                                                              | 734,700 hrs        | 734,700 hrs        | 734,700 hrs        | 734,700 hrs        | 832,875 hrs        | 832,875 hrs        | 1,252,145 hrs.     |
| Certification                                                                           |                    |                    |                    |                    |                    |                    |                    |
| Regulatory/Approval                                                                     | CE/FCC/EN50121-4   | CE/FCC/EN50121-4   | CE/FCC/EN50121-4   | CE/FCC/EN50121-4   | CE/FCC/EN50121-4   | CE/FCC/EN50121-4   | CE/FCC/EN50121-4   |
| Compliance Standard                                                                     | Heavy Ind. EMC     | Heavy Ind. EMC     | Heavy Ind. EMC     | Heavy Ind. EMC     | Heavy Ind. EMC     | Heavy Ind. EMC     | Heavy Ind. EMC     |

● Supported



JetNet 5210G



JetNet 5010G  
JetNet 5010G-w



JetNet 4510  
JetNet 4510-w



JetNet 4508if/4508if-w  
JetNet 4508if



JetNet 4508/4508-w  
JetNet 4508i/4508i-w

| DIN-Rail Managed Ethernet Switches                                                      |                     |                        |                        |                                                    |                        |
|-----------------------------------------------------------------------------------------|---------------------|------------------------|------------------------|----------------------------------------------------|------------------------|
| Interface                                                                               |                     |                        |                        |                                                    |                        |
| Total ports number                                                                      | 10                  | 10                     | 10                     | 8                                                  | 8                      |
| 10/100TX Ports                                                                          | 8                   | 7                      | 7                      | 6                                                  | 8                      |
| 10/100/1000TX Ports                                                                     |                     |                        |                        |                                                    |                        |
| 100/1000M Combo                                                                         | 2                   | 3                      | 3 x 100M               |                                                    |                        |
| SFP Ports                                                                               |                     |                        |                        | 2 X 100M(SC)                                       |                        |
| DI/DO (Dry Relay)                                                                       | 1 DI, 1 DO          | 2 DI, 2 DO             | 2 DI, 2 DO             | 1 DI, 1 DO                                         | 1 DI, 1 DO             |
| DC Power Input                                                                          | 2 x DC24V (10-60V)  | 2 x DC24V (10.5-60V)   | 2 x DC24V (10.5-60V)   | 2 x DC24V (10-60V)                                 | 2 x DC24V (10-60V)     |
| Console                                                                                 | RS-232              | RS-232                 | RS-232                 | RS-232                                             | RS-232                 |
| Features                                                                                |                     |                        |                        |                                                    |                        |
| Network Redundancy (MSR, RDH, TrunkRing, MultiRing, SuperChain, ERPS, RSTP, MSTP, LACP) | ●                   | ●                      | ●                      | ●                                                  | ●                      |
| Broadcast Storm/Loop Protection                                                         | ●                   | ●                      | ●                      | ●                                                  | ●                      |
| Advnced Security (L2/3/4 ACL) DHCP Snooping, IP Source Guard, DAI)                      |                     |                        |                        |                                                    |                        |
| DHCP Server (Opt82, Port Based)                                                         | ●                   | ●                      | ●                      | ●                                                  | ●                      |
| Korenix View/Korenix NMS                                                                | ●                   | ●                      | ●                      | ●                                                  | ●                      |
| SW/Protocol                                                                             |                     |                        |                        |                                                    |                        |
| IPv6 Management                                                                         |                     |                        |                        |                                                    |                        |
| RSTP/MSTP                                                                               | ●                   | ●                      | ●                      | ●                                                  | ●                      |
| Traffic Priority (QoS)                                                                  | ●                   | ●                      | ●                      | ●                                                  | ●                      |
| VLAN, P-VLAN, QinQ, GVRP                                                                | ●                   | ●                      | ●                      | ●                                                  | ●                      |
| IGMP Query, Snooping, GMRP                                                              | ●                   | IGMP Query, Snooping   | IGMP Query, Snooping   | IGMP Query, Snooping                               | IGMP Query, Snooping   |
| IEEE802.1AB LLDP Network Discovery                                                      | ●                   | ●                      | ●                      | ●                                                  | ●                      |
| IEEE802.3ad LACP, Static Trunk                                                          | ●                   | ●                      | ●                      | ●                                                  | ●                      |
| IEEE 1588 PTP v1                                                                        | ●                   | ●                      | ●                      | ●                                                  | ●                      |
| Jumbo Frame                                                                             |                     |                        |                        |                                                    |                        |
| Port Mirroring                                                                          | ●                   | ●                      | ●                      | ●                                                  | ●                      |
| DDM SFP                                                                                 | ●                   | ●                      | ●                      | ●                                                  | ●                      |
| IP Security/Port Security/SSL/HTTPS/SSH/Telnet                                          | ●                   | ●                      | ●                      | ●                                                  | ●                      |
| User Security                                                                           | ●                   | ●                      | ●                      | ●                                                  | ●                      |
| Ind. Protocol (ModBus TCP, Ethernet /IP)                                                | ●                   | ●                      | ●                      | ●                                                  | ●                      |
| SNMP/RMON/ Trap                                                                         | ●                   | ●                      | ●                      | ●                                                  | ●                      |
| CLI/Web/Telnet                                                                          | ●                   | ●                      | ●                      | ●                                                  | ●                      |
| HW/ME                                                                                   |                     |                        |                        |                                                    |                        |
| Housing Protection (IP)                                                                 | IP31/Aluminum       | IP31/Aluminum          | IP31/Aluminum          | IP31/Aluminum                                      | IP31/Aluminum          |
| Dimension (HxWxD mm)                                                                    | 160 x 80 x 136      | 137 x 96 x 139         | 137 x 96 x 139         | 149 x 55 x 131                                     | 149 x 55 x 131         |
| Mounting                                                                                | DIN Rail            | DIN Rail/Wall Mounting | DIN Rail/Wall Mounting | DIN Rail/Wall Mounting                             | DIN Rail/Wall Mounting |
| Operating Temperature                                                                   | -40~75°C            | -25~70°C /-40~75°C(-w) | -25~70°C/-40~75°C(-w)  | -10~70°C/-40~75°C(-w)                              | -25~70°C/-40~75°C(-w)  |
| MTBF (hrs)                                                                              | 472,000             | 425,000                | 425,000                | 661,000                                            | 425,000                |
| Certification                                                                           |                     |                        |                        |                                                    |                        |
| Regulatory/Approval                                                                     | CE/FCC/UL/EN50121-4 | CE/FCC/UL              | CE/FCC/UL              | 4508i/4508if Series:<br>CE/FCC/IEEE1613/IEC61850-3 |                        |
| Compliance Standard                                                                     | Heavy Ind. EMC      | Heavy Ind. EMC         | Heavy Ind. EMC         | Heavy Ind. EMC                                     | Heavy Ind. EMC         |



| Unmanaged Ethernet Switches |                   |                           |                    |                           |                    |                   |                            |                             |                               |                                |                                                      |                |
|-----------------------------|-------------------|---------------------------|--------------------|---------------------------|--------------------|-------------------|----------------------------|-----------------------------|-------------------------------|--------------------------------|------------------------------------------------------|----------------|
| Interface                   |                   |                           |                    |                           |                    |                   |                            |                             |                               |                                |                                                      |                |
| Total ports number          | 12                | 5                         | 18                 | 10                        | 8                  | 5                 | 8                          | 8                           | 5                             | 5                              | 8                                                    | 8              |
| 10/100TX Ports              |                   |                           | 16                 | 7                         |                    |                   | 8                          | 6                           | 5                             | 4                              |                                                      | 7 x M12-D      |
| 10/100/1000 TX Ports        | 8                 | 5 (3205G)<br>4 (3205G-1F) |                    |                           | 8                  | 5                 |                            |                             |                               |                                | 8 x M12-X                                            | 1 x M12-X      |
| 100/1000M Combo             | 2 x 1000M         |                           | 2                  | 3 x 1000M                 |                    |                   |                            |                             |                               |                                |                                                      |                |
| SFP Ports                   | 2 x 1000M         | 1 X1000M (3205G-1F)       |                    |                           |                    |                   |                            | 2 x 100M (SC)               |                               | 1 x 100M (SC)                  |                                                      |                |
| DI/DO (Dry Relay)           | 1 DO              | 1 DO                      | 2 DO               |                           | 1 DO               | 1 DO              | 1 DO                       | 1 DO                        | 1 DO                          | 1 DO                           |                                                      |                |
| DC Power input              | 2 x DC24 (10-60V) | 2 x DC24 (10-60V)         | 2 x DC24 (10-60V)  | 2 x DC24 (12-48VDC)       | 2 x DC24 (9-60VDC) | 2 x DC24 (10-60V) | 2 x DC24 (10-60V)          | 2 x DC24 (10-60V)           | 1 x DC24V (18-32V)            | 1 x DC24V (18-32V)             | 2 x DC12-24V                                         | 2 x DC12-24V   |
| Features                    |                   |                           |                    |                           |                    |                   |                            |                             |                               |                                |                                                      |                |
| Qos traffic Priority        | 4 Queues          |                           | 4 Queues           | 4 Queues                  | 4 Queues           | 4 Queues          | 2 Queues                   | 2 Queues                    |                               |                                | ●                                                    | ●              |
| Broadcast Storm filtering   | ●                 |                           | ●<br>(DIP Switch)  |                           | ●                  | ●                 | ●                          | ●                           |                               |                                |                                                      |                |
| Port/Power Event Alarm      | Power Alarm       | Power Alarm               | Port 17, 18 Alarm  |                           | ●                  | ●                 | ●                          | ●                           | Port Alarm                    | Port Alarm                     |                                                      |                |
| Jumbo Frame                 | 10K Bytes         | 9K Bytes                  | 9K Bytes           |                           | 10K Bytes          | 9K Bytes          |                            |                             |                               |                                | 10Kbytes                                             | 10Kbytes       |
| HW/ME                       |                   |                           |                    |                           |                    |                   |                            |                             |                               |                                |                                                      |                |
| Housing Protection (IP)     | IP31/Metal        | IP31/Metal                | IP31/Aluminum      | IP31/Aluminum             | IP31/Aluminum      | IP30/Metal        | IP31/Aluminum              | IP31/Aluminum               | IP31/Aluminum                 | IP31/Aluminum                  | IP41 Steel Metal<br>IP54 Steel Metal by request      |                |
| Dimension (HxWxD mm)        | 135 x 74 x 141    | 120 x 30 x 108            | 136.5 x 96 x 149.2 | 136.5 x 96 x 139.2        | 120 x 55 x 112     | 111.8 x 30 x 98.5 | 120 x 55 x 108             | 120 x 55 x 108              | 111.8 x 30 x 98.4             | 111.8 x 30 x 98.4              | 116 x 58 x 146                                       | 116 x 58 x 146 |
| Mounting                    | DIN Rail          | DIN Rail                  | DIN Rail           | DIN Rail                  | DIN Rail           | DIN Rail          | DIN Rail                   | DIN Rail                    | DIN Rail                      | DIN Rail                       | Wall Mount                                           | Wall Mount     |
| Operating Temperature       | -40~75°C          | -40~75°C                  | -40~75°C(-w)       | -20~70°C/<br>-40~75°C(-w) | -40~70°C           | -40~75°C          | -20~70°C/<br>-40~75°C(-w)  | -20~70°C/<br>-40~75°C(-w)   | -20~70°C/<br>-40~75°C(-w)     | -10~60°C/<br>-40~75°C(-w)      | -40~75°C                                             | -40~75°C       |
| MTBF (hrs)                  |                   | 380,000                   | >200,000           | >250,000                  | 382,000            | 810,458           | 400,000                    | 400,000                     | 818,646                       | 713,506                        | 379,940                                              | 379,940        |
| Certification               |                   |                           |                    |                           |                    |                   |                            |                             |                               |                                |                                                      |                |
| Regulatory/Approval         | CE/FCC/EN50121-4  | CE/FCC/EN50121-4          | CE/FCC             | CE/FCC/UL 508             | CE/FCC/EN50121-4   | CE/FCC            | CE/FCC/UL/UL C1D2 (3008-w) | CE/FCC/UL/UL C1D2 (3008f-w) | CE/FCC/UL508/UL C1D2 (2005-w) | CE/FCC/UL508/UL C1D2 (2005f-w) | CE/FCC/EN50155/EN50121-4/EN50121-3-2/E-Mark 13/ITxPT |                |
| Compliance Standard         | Heavy Ind. EMC    | Heavy Ind. EMC            |                    |                           |                    |                   |                            |                             |                               |                                | Heavy Industrial                                     |                |

● Supported



| Rackmount Managed PoE Switch                                                              |                                                              |                                                           |                                                              |                                                           |                                                              |                                                           |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------|
| Interface                                                                                 |                                                              |                                                           |                                                              |                                                           |                                                              |                                                           |
| Total Ports Number                                                                        | 28                                                           | 28                                                        | 28                                                           | 28                                                        | 28                                                           | 28                                                        |
| 10/100/1000TX Ports                                                                       | 24(PoE+)                                                     | 24(PoE+)                                                  | 24(PoE+)                                                     | 24(16 PoE+)                                               | 4(PoE+)                                                      | 4                                                         |
| 10/100TX Ports                                                                            |                                                              |                                                           |                                                              |                                                           | 20(PoE+)                                                     | 20(16 PoE+)                                               |
| 100/1000M Combo                                                                           |                                                              |                                                           |                                                              |                                                           |                                                              |                                                           |
| SFP Ports                                                                                 | 4 x 10GbE/1G                                                 | 4 x 10GbE/1G                                              | 4 x 1000M                                                    |                                                           | 4 x 1000M                                                    | 4 x 1000M                                                 |
| DI/DO (Dry Relay)                                                                         | DO                                                           |                                                           | DO                                                           |                                                           | DO                                                           |                                                           |
| Console/USB                                                                               | RS232/USB                                                    |                                                           | RS232/USB                                                    |                                                           | RS232/USB                                                    |                                                           |
| DC Power input                                                                            | 2x44-57VDC(IEEE 802.3af)<br>2x50-57VDC(IEEE 802.3at)         |                                                           | 2x44-57VDC(IEEE 802.3af)<br>2x50-57VDC(IEEE 802.3at)         |                                                           | 2x44-57VDC(IEEE 802.3af)<br>2x50-57VDC(IEEE 802.3at)         |                                                           |
| AC Power input                                                                            | 1x90-264 VAC                                                 |                                                           | 1x90-264 VAC                                                 |                                                           | 1x90-264 VAC                                                 |                                                           |
| Features                                                                                  |                                                              |                                                           |                                                              |                                                           |                                                              |                                                           |
| Korenix Cyber Redundancy+ (MSR, MultiRing, TrunkRing, RDH, SuperChain, ITU-T G.8032 ERPS) | ●                                                            | ●                                                         | ●                                                            | ●                                                         | ●                                                            |                                                           |
| Korenix Cyber Security+ (DHCP Snooping, IP Source Guard, DAI, DOS)                        | ●                                                            | ●                                                         | ●                                                            | ●                                                         | ●                                                            |                                                           |
| IPv4/IPv6 ACL(L2/L3/L4) Security                                                          | ●                                                            | ●                                                         | ●                                                            | ●                                                         | ●                                                            |                                                           |
| Industrial Protocol (ModBus/TCP, EtherNet/IP)                                             | ●                                                            | ●                                                         | ●                                                            | ●                                                         | ●                                                            |                                                           |
| EEE Energy Saving                                                                         | ●                                                            | ●                                                         | ●                                                            | ●                                                         | ●                                                            |                                                           |
| Korenix View/Korenix NMS                                                                  | ●                                                            | ●                                                         | ●                                                            | ●                                                         | ●                                                            | ●                                                         |
| PoE Features                                                                              |                                                              |                                                           |                                                              |                                                           |                                                              |                                                           |
| PoE Wiring                                                                                | 1,2,3,6                                                      |                                                           | 1,2,3,6                                                      |                                                           | 1,2,3,6                                                      |                                                           |
| PoE Specification                                                                         | IEEE802.3af, IEEE802.3at                                     |                                                           | IEEE802.3af, IEEE802.3at                                     |                                                           | IEEE802.3af, IEEE802.3at                                     |                                                           |
| PoE Technology                                                                            | PoE Priority Control, PD keep alive checking, PoE Scheduling |                                                           | PoE Priority Control, PD keep alive checking, PoE Scheduling |                                                           | PoE Priority Control, PD keep alive checking, PoE Scheduling |                                                           |
| Embedded AC power                                                                         | 300W                                                         |                                                           | 300W                                                         |                                                           | 300W                                                         |                                                           |
| Total Power Budget                                                                        | 230W@AC(75°C),<br>300W@AC(-40~60°C),<br>720W@DC(-40~75°C)    | 230W@AC(75°C),<br>300W@AC(-40~60°C),<br>480W@DC(-40~75°C) | 230W@AC(75°C),<br>300W@AC(-40~60°C),<br>720W@DC(-40~75°C)    | 230W@AC(75°C),<br>300W@AC(-40~60°C),<br>480W@DC(-40~75°C) | 180W@AC(75°C),<br>270W@AC(-40~60°C),<br>650W@DC(-40~75°C)    | 180W@AC(75°C),<br>270W@AC(-40~60°C),<br>480W@DC(-40~75°C) |
| SW/Protocol                                                                               |                                                              |                                                           |                                                              |                                                           |                                                              |                                                           |
| IPv6 Management                                                                           | ●                                                            | ●                                                         | ●                                                            | ●                                                         | ●                                                            | ●                                                         |
| RSTP/MSTP                                                                                 | ●                                                            | ●                                                         | ●                                                            | ●                                                         | ●                                                            | ●                                                         |
| Traffic Priority (QoS)                                                                    | 8 Queues/port                                                |                                                           | 8 Queues/port                                                |                                                           | 8 Queues/port                                                |                                                           |
| VLAN,P-VLAN, QinQ, GVRP                                                                   | 4k VLANs                                                     |                                                           | 4k VLANs                                                     |                                                           | 4k VLANs                                                     |                                                           |
| IGMP Query, Snooping, GMRP                                                                | ●                                                            | ●                                                         | ●                                                            | ●                                                         | ●                                                            | ●                                                         |
| IEEE 802.1AB LLDP Network Discovery                                                       | ●                                                            | ●                                                         | ●                                                            | ●                                                         | ●                                                            | ●                                                         |
| IEEE 802.3ad LACP                                                                         | ●                                                            | ●                                                         | ●                                                            | ●                                                         | ●                                                            | ●                                                         |
| IEEE 1588 PTP v1/v2                                                                       | HW time stamping                                             |                                                           | HW time stamping                                             |                                                           | SW based                                                     |                                                           |
| Jumbo Frame/MAC Address                                                                   | 9.2Kbytes/16K                                                |                                                           | 9.2Kbytes/16K                                                |                                                           | 9.2Kbytes/16K                                                |                                                           |
| Broadcast Storm Protection                                                                | ●                                                            | ●                                                         | ●                                                            | ●                                                         | ●                                                            | ●                                                         |
| DDM SFP                                                                                   | ●                                                            | ●                                                         | ●                                                            | ●                                                         | ●                                                            | ●                                                         |
| IEEE 802.1x, IP/Port Security<br>SSL /HTTPS, SSH/Telnet                                   | ●                                                            | ●                                                         | ●                                                            | ●                                                         | ●                                                            | ●                                                         |
| TACACS+, Radius                                                                           | ●                                                            | ●                                                         | ●                                                            | ●                                                         | ●                                                            | ●                                                         |
| SNMP/RMON/Trap                                                                            | ●                                                            | ●                                                         | ●                                                            | ●                                                         | ●                                                            | ●                                                         |
| CLI/Web/Telnet                                                                            | ●                                                            | ●                                                         | ●                                                            | ●                                                         | ●                                                            | ●                                                         |
| HW/ME                                                                                     |                                                              |                                                           |                                                              |                                                           |                                                              |                                                           |
| Ingress Protection/Housing                                                                | IP40                                                         |                                                           | IP40                                                         |                                                           | IP40                                                         |                                                           |
| Dimension (HxWxD mm)                                                                      | 44 x 440 x 378.5                                             |                                                           | 44 x 440 x 378.5                                             |                                                           | 44 x 431 x 375                                               |                                                           |
| Mounting                                                                                  | Rackmount                                                    |                                                           | Rackmount                                                    |                                                           | Rackmount                                                    |                                                           |
| Operating Temperature                                                                     | -40~75°C (fanless)                                           |                                                           | -40~75°C (fanless)                                           |                                                           | -40~75°C (fanless)                                           |                                                           |
| MTBF (hrs)                                                                                | > 202,000                                                    |                                                           | > 202,000                                                    |                                                           | > 202,000                                                    | > 202,000                                                 |
| Certification                                                                             |                                                              |                                                           |                                                              |                                                           |                                                              |                                                           |
| Regulatory/Approval                                                                       | CE/FCC/EN50121-4                                             |                                                           | CE/FCC/UL/EN50121-4                                          |                                                           | CE/FCC/UL/CB/EN50121-4                                       |                                                           |

● Supported



JetNet 7520P-HVDC  
JetNet 7520P-LVDC



JetNet 7516P-HVDC  
JetNet 7516P-LVDC



JetNet 7714G



JetNet 6910G-M12 HVDC  
JetNet 6910G-M12 LVDC



JetNet 5520P-HVDC  
JetNet 5520P-LVDC



JetNet 5512P-HVDC  
JetNet 5512P-LVDC

| M12 Giga Managed Industrial PoE Switch                                                 |                                                                |                                  |                                                                |                                                                |                                                                |                                  |
|----------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------|
| Interface                                                                              |                                                                |                                  |                                                                |                                                                |                                                                |                                  |
| Total Ports Number                                                                     | 20                                                             | 16                               | 14                                                             | 10                                                             | 20                                                             | 12                               |
| 100/1000TX Ports                                                                       | 2 x M12-X<br>2 x M12-X (w/Bypass)                              | 2 x M12-X<br>2 x M12-X(w/Bypass) | 4 x M12-A                                                      | 1 x M12-X(PoE+)<br>2 M12-X(w/Bypass)                           | 2 x M12-X<br>2 x M12-X (w/Bypass)                              | 2 x M12-X<br>2 x M12-X(w/Bypass) |
| 10/100TX Ports                                                                         | 16 x M12-D                                                     | 12 x M12-D                       | 10 X M12-D                                                     | 7 x M12-D                                                      | 16 x M12-D                                                     | 8 x M12-D                        |
| 100/1000M Combo                                                                        |                                                                |                                  |                                                                |                                                                |                                                                |                                  |
| SFP Ports                                                                              |                                                                |                                  |                                                                |                                                                |                                                                |                                  |
| DI/DO (Dry Relay)                                                                      |                                                                |                                  |                                                                |                                                                |                                                                |                                  |
| Console                                                                                | M12-A RS-232, USB                                              | M12-A RS-232, USB                | M12-A RS-232, USB                                              | M12-A RS-232, USB                                              | M12-A RS-232, USB                                              | M12-A RS-232, USB                |
| Power Input                                                                            | 2 x DC 110V(77-137.5V) (-HVDC)<br>2 x DC 24V(10-57V)(-LVDC)    |                                  | 2 x DC 110V<br>(77-137.5V)                                     | 2 x DC 110V<br>(77-137.5V)(HVDC)                               | 2 x DC 110V(77-137.5V) (-HVDC)<br>2 x DC 24V(10-57V)(-LVDC)    |                                  |
| Features                                                                               |                                                                |                                  |                                                                |                                                                |                                                                |                                  |
| Network Redundancy (MSR, RDH, TrunkRing, MultiRing, SuperChain, ERPS, RSTP, MSTP,LACP) | ●                                                              | ●                                | ●                                                              | MSR, RSTP/MSTP,LACP                                            | ●                                                              | ●                                |
| IP Security/Port Security /SSL/HTTPS/SSH/Telnet                                        | ●                                                              | ●                                | Port, IEEE 802.1x Port w /Radius Server, SSL/HTTPs, SSH/Telnet | Port, IEEE 802.1x Port w /Radius Server, SSL/HTTPs, SSH/Telnet | ●                                                              | ●                                |
| Advanced Security (L2/3 /4 ACL) DHCP Snooping, IP Source Guard, DAI)                   | ●                                                              | ●                                | ●                                                              |                                                                | ●                                                              | ●                                |
| korenix View                                                                           | ●                                                              | ●                                | ●                                                              | ●                                                              | ●                                                              | ●                                |
| Ind. Protocol (ModBus TCP, Ethernet                                                    |                                                                |                                  |                                                                |                                                                |                                                                |                                  |
| Power over Ethernet                                                                    |                                                                |                                  |                                                                |                                                                |                                                                |                                  |
| PoE Ports                                                                              | 16                                                             | 8                                | 8                                                              | 8                                                              | 16                                                             | 8                                |
| Power Feeding Mode                                                                     | M12-D : V+(1,3), V-(2,4)                                       | M12-D : V+(1,3), V-(2,4)         | M12-D : V+(1,3), V-(2,4)                                       | M12-X : V+(1,2), V-(3,4)<br>M12-D : V+(1,3), V-(2,4)           | M12-D : V+(1,3), V-(2,4)                                       | M12-D : V+(1,3), V-(2,4)         |
| PoE Mode                                                                               | IEEE 802.3af/at                                                | IEEE 802.3af/at                  | IEEE 802.3af/at                                                | IEEE 802.3af/at                                                | IEEE 802.3af/at                                                | IEEE 802.3af/at                  |
| PoE Scheduling                                                                         | ●                                                              | ●                                | ●                                                              | ●                                                              | ●                                                              | ●                                |
| System PoE Budget                                                                      | 120W/70°C (-HVDC)<br>100W/70°C (-LVDC)                         |                                  | 100W/70°C                                                      | 100W/70°C                                                      | 120W/70°C (-HVDC)<br>100W/70°C (-LVDC)                         |                                  |
| L3 Protocols                                                                           |                                                                |                                  |                                                                |                                                                |                                                                |                                  |
| L3 Routing                                                                             | ●                                                              | ●                                | ●                                                              |                                                                |                                                                |                                  |
| Multicast Routing                                                                      | ●                                                              | ●                                | ●                                                              |                                                                |                                                                |                                  |
| VRRP Gateway Redundancy                                                                | ●                                                              | ●                                | ●                                                              |                                                                |                                                                |                                  |
| SW/Protocol                                                                            |                                                                |                                  |                                                                |                                                                |                                                                |                                  |
| Management (SNMP V1/2c/3, CLI, Web, Trap,RMON)                                         | ●                                                              | ●                                | ●                                                              | ●                                                              | ●                                                              | ●                                |
| Traffic Priority (QoS)                                                                 | ●                                                              | ●                                | ●                                                              | ●                                                              | ●                                                              | ●                                |
| VLAN,P-VLAN, QinQ, GVRP                                                                | ●                                                              | ●                                | ●                                                              | ●                                                              | ●                                                              | ●                                |
| IGMP Query, Snooping, GMRP                                                             | ●                                                              | ●                                | ●                                                              | ●                                                              | ●                                                              | ●                                |
| IEEE 802.1AB LLDP                                                                      | ●                                                              | ●                                | ●                                                              | ●                                                              | ●                                                              | ●                                |
| IEEE 1588 PTP v1/v2                                                                    | ●                                                              | ●                                | IEEE 1588 PTP V2                                               | IEEE 1588 PTP V1                                               | ●                                                              | ●                                |
| Jumbo Frame                                                                            | 9.2Kbytes                                                      | 9.2Kbytes                        | 9.2Kbytes                                                      | 9.2Kbytes                                                      | 9.2Kbytes                                                      | 9.2Kbytes                        |
| DHCP (Server, Client, Opt 82, Port Based Server)                                       | ●                                                              | ●                                | ●                                                              | ●                                                              | ●                                                              | ●                                |
| HW/ME                                                                                  |                                                                |                                  |                                                                |                                                                |                                                                |                                  |
| Housing Protection (IP)                                                                | IP41 Steel Metal<br>IP54 Steel Metal by request                |                                  | IP30                                                           | IP30                                                           | IP41 Steel Metal<br>IP54 Steel Metal by request                |                                  |
| Dimension (HxWxD mm)                                                                   | 162.2 x 206 x 70                                               |                                  | 145.2 x 198 x 120                                              | 145.2 x 198 x 120                                              | 162.2 x 206 x 70                                               |                                  |
| Mounting                                                                               | Wall Mount/ DaiRail                                            |                                  | Wall Mount                                                     | Wall Mount                                                     | Wall Mount/ DaiRail                                            |                                  |
| Operating Temperature                                                                  | -40~70°C                                                       |                                  | -40~70°C                                                       | -40~70°C                                                       | -40~70°C                                                       |                                  |
| MTBF (hrs)                                                                             | 426,523                                                        |                                  | >375,000                                                       | >365,000                                                       | 426,523                                                        |                                  |
| Certification                                                                          |                                                                |                                  |                                                                |                                                                |                                                                |                                  |
| Regulatory/Approval                                                                    | CE/FCC/EN50155/IEC 62236-4/<br>IEC 61373/EN50121-3-2/EN50121-4 |                                  | CE/FCC/EN50155/<br>IEC 61373/EN50121-3-2                       | CE/FCC/EN50155/<br>IEC 61373/EN50121-3-2                       | CE/FCC/EN50155/IEC 62236-4/<br>IEC 61373/EN50121-3-2/EN50121-4 |                                  |
| Compliance Standard                                                                    | E-Mark (-LVDC)                                                 |                                  |                                                                |                                                                | E-Mark (-LVDC)                                                 |                                  |

● Supported



JetNet 7310G V2



JetNet 7612GP-4F



JetNet 5612GP-4F



JetNet 5810G



JetNet 5310G



JetNet 4706  
JetNet 4706f

| Managed Industrial PoE Switch                                                          |                       |                       |         |                       |                         |                          |
|----------------------------------------------------------------------------------------|-----------------------|-----------------------|---------|-----------------------|-------------------------|--------------------------|
| Interface                                                                              |                       |                       |         |                       |                         |                          |
| Total Ports Number                                                                     | 10                    | 12                    | 12      | 10                    | 10                      | 6                        |
| 100/1000TX Ports                                                                       | 8                     | 8                     | 8       |                       |                         |                          |
| 10/100TX Ports                                                                         |                       |                       |         | 8                     | 8                       | 6 (4706)<br>4 (4706f)    |
| 100/1000M Combo                                                                        |                       |                       |         | 2                     | 2                       |                          |
| SFP Ports                                                                              | 2 x 100/1000M         | 4x 100/1000M          |         |                       |                         | 2 x 100M(SC) (4706f)     |
| DI/DO (Dry Relay)                                                                      | 1 x DI, 1 x DO        | 1 x DI, 1 x DO        |         | 1 x DI, 1 x DO        |                         | 1 DO                     |
| Console                                                                                | RS-232                | RS-232                |         | RS-232                |                         | RS-232                   |
| Power Input                                                                            | 2x DC 48V<br>(46-57V) | 2x DC 48V<br>(46-57V) |         | 2x DC 24V<br>(12-24V) | 2 x DC 48V<br>(48-57V)  | 2 x DC 48V<br>(48-57V)   |
| Features                                                                               |                       |                       |         |                       |                         |                          |
| Network Redundancy (MSR, RDH, TrunkRing, MultiRing, SuperChain, ERPS, RSTP, MSTP,LACP) | ●                     | ●                     | ●       | ●                     | ●                       | MSR, RSTP/<br>MSTP, LACP |
| IP Security/Port Security/SSL/HTTPS/ SSH/Telnet                                        | ●                     | ●                     | ●       | ●                     | ●                       | Port Security            |
| Advanced Security (L2/3/4 ACL) DHCP Snooping, IP Source Guard, DAI)                    | ●                     | ●                     | ●       |                       |                         |                          |
| korenix View                                                                           | ●                     | ●                     | ●       | ●                     | ●                       | ●                        |
| Ind. Protocol (ModBus TCP, Ethernet /IP)                                               | ●                     | ●                     | ●       | ●                     | ●                       |                          |
| Power over Ethernet                                                                    |                       |                       |         |                       |                         |                          |
| PoE Ports                                                                              | 8                     | 8                     |         | 8                     |                         | 4                        |
| Power Feeding Mode                                                                     | 1,2,3,6 (A)           | 1,2,3,6 (A)           |         | 1,2,3,6 (A)           |                         | RJ-45 (4,5,7,8) (B)      |
| PoE Mode                                                                               | IEEE 802.3af/at       | IEEE 802.3af/at       |         | IEEE 802.3af/at       |                         | IEEE 802.3af             |
| PoE Scheduling                                                                         | ●                     | ●                     | ●       | ●                     | ●                       | ●                        |
| System PoE Budget                                                                      | 240W/75°C             | 240W/75°C             |         | 240W/ 75°C            |                         | 80W/60°C                 |
| L3 Protocols                                                                           |                       |                       |         |                       |                         |                          |
| L3 Routing                                                                             | ●                     | ●                     |         |                       |                         |                          |
| Multicast Routing                                                                      | ●                     | ●                     |         |                       |                         |                          |
| VRRP Gateway Redundancy                                                                | ●                     | ●                     |         |                       |                         |                          |
| SW/Protocol                                                                            |                       |                       |         |                       |                         |                          |
| Management (SNMP V1/2c/3, CLI, Web, Trap,RMON)                                         | ●                     | ●                     | ●       | ●                     | ●                       | ●                        |
| Traffic Priority (QoS)                                                                 | ●                     | ●                     | ●       | ●                     | ●                       | ●                        |
| VLAN,P-VLAN, QinQ, GVRP                                                                | ●                     | ●                     | ●       | ●                     | ●                       | Port Based VLAN          |
| IGMP Query, Snooping, GMRP                                                             | ●                     | ●                     | ●       | ●                     | ●                       | IGMP Query, Snooping     |
| IEEE 802.1AB LLDP                                                                      | ●                     | ●                     | ●       | ●                     | ●                       | ●                        |
| IEEE 1588 PTP v1/v2                                                                    | ●                     | ●                     | ●       | IEEE 1588 PTP V1      |                         |                          |
| Jumbo Frame                                                                            | 9Kbytes               | 9Kbytes               | 9Kbytes |                       |                         |                          |
| DHCP (Server, Client, Opt 82, Port Based Server)                                       | ●                     | ●                     | ●       | ●                     | ●                       |                          |
| HW/ME                                                                                  |                       |                       |         |                       |                         |                          |
| Housing Protection (IP)                                                                | IP31                  | IP31                  |         | IP31                  |                         | IP31                     |
| Dimension (HxWxD mm)                                                                   | 160 x 108 x 136       | 160 x 84 x 136        |         | 159 x 96 x 132        | 160 x 95 x 135          | 136 x 185 x 45           |
| Mounting                                                                               | DIN Rail              | DIN Rail              |         | DIN Rail              |                         | Wall Mount               |
| Operating Temperature                                                                  | -40~75 °C             | -40~75 °C             |         | -40~75 °C             |                         | -40~60 °C                |
| MTBF (hrs)                                                                             | 499,000               | 499,000               |         | 446,000               |                         | >272,000                 |
| Certification                                                                          |                       |                       |         |                       |                         |                          |
| Regulatory/Approval                                                                    | CE/FCC/EN50121-4      | CE/FCC/EN50121-4      |         | CE/FCC                | CE/FCC/UL/<br>EN50121-4 | CE/FCC/UL                |
| Compliance Standard                                                                    |                       |                       |         | Heavy Industrial      |                         |                          |

● Supported



JetNet 5208GP



JetNet 5208GP-2F



JetNet 5208GP-U



JetNet 5208GP-2F-U



JetNet 5210GP-2C



JetNet 5210GP-2C-U

| Managed Industrial PoE Switch                                                           |                    |                    |                                     |                                     |                    |                                     |
|-----------------------------------------------------------------------------------------|--------------------|--------------------|-------------------------------------|-------------------------------------|--------------------|-------------------------------------|
| Interface                                                                               |                    |                    |                                     |                                     |                    |                                     |
| Total Ports Number                                                                      | 8                  | 8                  | 8                                   | 8                                   | 10                 | 10                                  |
| 100/1000TX Ports                                                                        | 8                  | 6                  | 8                                   | 6                                   | 8                  | 8                                   |
| 10/100TX Ports                                                                          |                    |                    |                                     |                                     |                    |                                     |
| 100/1000M Combo                                                                         |                    |                    |                                     |                                     | 2                  | 2                                   |
| SFP Ports                                                                               |                    | 2 x 100/1000M      |                                     | 2 x 100/1000M                       |                    |                                     |
| DI/DO (Dry Relay)                                                                       | 1 x DI, 1 x DO     | 1 x DI, 1 x DO     | 1 x DI, 1 x DO                      | 1 x DI, 1 x DO                      | 1 x DI, 1 x DO     | 1 x DI, 1 x DO                      |
| Console                                                                                 | RS-232             | RS-232             | RS-232                              | RS-232                              | RS-232             | RS-232                              |
| Power Input                                                                             | 2x DC 48V (46-57V) | 2x DC 48V (46-57V) | 2x DC 48V (46-57V)                  | 2x DC 48V (46-57V)                  | 2x DC 48V (46-57V) | 2x DC 48V (46-57V)                  |
| Features                                                                                |                    |                    |                                     |                                     |                    |                                     |
| Network Redundancy (MSR, RDH, TrunkRing, MultiRing, SuperChain, ERPS, RSTP, MSTP, LACP) | ●                  | ●                  | ●                                   | ●                                   | ●                  | ●                                   |
| IP Security/Port Security/SSL/HTTPS/SSH/Telnet                                          | ●                  | ●                  | ●                                   | ●                                   | ●                  | ●                                   |
| Advanced Security (L2/3/4 ACL) DHCP Snooping, IP Source Guard, DAI)                     | ●                  | ●                  | ●                                   | ●                                   | ●                  | ●                                   |
| korenix View                                                                            | ●                  | ●                  | ●                                   | ●                                   | ●                  | ●                                   |
| Ind. Protocol (ModBus TCP, Ethernet /IP)                                                | ●                  | ●                  | ●                                   | ●                                   | ●                  | ●                                   |
| Power over Ethernet                                                                     |                    |                    |                                     |                                     |                    |                                     |
| PoE Ports                                                                               | 8                  | 8                  | 8                                   | 8                                   | 8                  | 8                                   |
| Power Feeding Mode                                                                      | 1,2,3,6 (A)        | 1,2,3,6 (A)        | 1,2,3,6 (A)<br>1,2,3,4,5,6,7,8 (bt) | 1,2,3,6 (A)<br>1,2,3,4,5,6,7,8 (bt) | 1,2,3,6 (A)        | 1,2,3,6 (A)<br>1,2,3,4,5,6,7,8 (bt) |
| PoE Mode                                                                                | IEEE 802.3af/at    | IEEE 802.3af/at    | IEEE 802.3af/at/bt                  | IEEE 802.3af/at/bt                  | IEEE 802.3af/at    | IEEE 802.3af/at                     |
| PoE Scheduling                                                                          | ●                  | ●                  | ●                                   | ●                                   | ●                  | ●                                   |
| System PoE Budget                                                                       | 180W/75°C          | 180W/75°C          | 180W/75°C                           | 180W/75°C                           | 240W/75°C          | 480W/75°C                           |
| SW/Protocol                                                                             |                    |                    |                                     |                                     |                    |                                     |
| Management (SNMP V1/2c/3, CLI, Web, Trap,RMON)                                          | ●                  | ●                  | ●                                   | ●                                   | ●                  | ●                                   |
| Traffic Priority (QoS)                                                                  | ●                  | ●                  | ●                                   | ●                                   | ●                  | ●                                   |
| VLAN,P-VLAN, QinQ, GVRP                                                                 | ●                  | ●                  | ●                                   | ●                                   | ●                  | ●                                   |
| IGMP Query, Snooping, GMRP                                                              | ●                  | ●                  | ●                                   | ●                                   | ●                  | ●                                   |
| IEEE 802.1AB LLDP                                                                       | ●                  | ●                  | ●                                   | ●                                   | ●                  | ●                                   |
| IEEE 1588 PTP v1/v2                                                                     | ●                  | ●                  | ●                                   | ●                                   | ●                  | ●                                   |
| Jumbo Frame                                                                             | 9Kbytes            | 9Kbytes            | 9Kbytes                             | 9Kbytes                             | 9Kbytes            | 9Kbytes                             |
| DHCP (Server, Client, Opt 82, Port Based Server)                                        | ●                  | ●                  | ●                                   | ●                                   | ●                  | ●                                   |
| HW/ME                                                                                   |                    |                    |                                     |                                     |                    |                                     |
| Housing Protection (IP)                                                                 | IP31               | IP31               | IP31                                | IP31                                | IP31               | IP31                                |
| Dimension (HxWxD mm)                                                                    | 135 x 50 x 120     | 135 x 50 x 120     | 135 x 50 x 120                      | 135 x 50 x 120                      | 135 x 96 x 132     | 135 x 96 x 132                      |
| Mounting                                                                                | DIN Rail           | DIN Rail           | DIN Rail                            | DIN Rail                            | DIN Rail           | DIN Rail                            |
| Operating Temperature                                                                   | -40~75°C           | -40~75°C           | -40~75°C                            | -40~75°C                            | -40~75°C           | -40~75°C                            |
| MTBF (hrs)                                                                              | 730,941 hrs        | 730,941 hrs        | 730,941 hrs                         | 730,941 hrs                         | 551,403 hrs        | 551,403 hrs                         |
| Certification                                                                           |                    |                    |                                     |                                     |                    |                                     |
| Regulatory/Approval                                                                     | CE/FCC/EN50121-4   | CE/FCC/EN50121-4   | CE/FCC/EN50121-4                    | CE/FCC/EN50121-4                    | CE/FCC/EN50121-4   | CE/FCC/EN50121-4                    |
| Compliance Standard                                                                     |                    |                    |                                     |                                     |                    |                                     |

● Supported



JetNet 5212GP-2C2F



JetNet 5212GP-2C2F-U



JetNet 5216GP-4F



JetNet 5216GP-4F-U

| Managed Industrial PoE Switch                                                           |                    |                                     |                    |                                     |
|-----------------------------------------------------------------------------------------|--------------------|-------------------------------------|--------------------|-------------------------------------|
| Interface                                                                               |                    |                                     |                    |                                     |
| Total Ports Number                                                                      | 12                 | 12                                  | 16                 | 16                                  |
| 100/1000TX Ports                                                                        | 8                  | 8                                   | 12                 | 12                                  |
| 10/100TX Ports                                                                          |                    |                                     |                    |                                     |
| 100/1000M Combo                                                                         | 2                  | 2                                   |                    |                                     |
| SFP Ports                                                                               | 2 x 100/1000M      | 2 x 100/1000M                       | 4x 100/1000M       | 4x 100/1000M                        |
| DI/DO (Dry Relay)                                                                       | 1 x DI, 1 x DO     | 1 x DI, 1 x DO                      | 1 x DI, 1 x DO     | 1 x DI, 1 x DO                      |
| Console                                                                                 | RS-232             | RS-232                              | RS-232             | RS-232                              |
| Power Input                                                                             | 2x DC 48V (46-57V) | 2x DC 48V (46-57V)                  | 2x DC 48V (46-57V) | 2x DC 48V (46-57V)                  |
| Features                                                                                |                    |                                     |                    |                                     |
| Network Redundancy (MSR, RDH, TrunkRing, MultiRing, SuperChain, ERPS, RSTP, MSTP, LACP) | ●                  | ●                                   | ●                  | ●                                   |
| IP Security/Port Security/SSL/HTTPS/SSH/Telnet                                          | ●                  | ●                                   | ●                  | ●                                   |
| Advanced Security (L2/3/4 ACL) DHCP Snooping, IP Source Guard, DAI)                     | ●                  | ●                                   | ●                  | ●                                   |
| korenix View                                                                            | ●                  | ●                                   | ●                  | ●                                   |
| Ind. Protocol (ModBus TCP, Ethernet /IP)                                                | ●                  | ●                                   | ●                  | ●                                   |
| Power over Ethernet                                                                     |                    |                                     |                    |                                     |
| PoE Ports                                                                               | 8                  | 8                                   | 8                  | 8                                   |
| Power Feeding Mode                                                                      | 1,2,3,6 (A)        | 1,2,3,6 (A)<br>1,2,3,4,5,6,7,8 (bt) | 1,2,3,6 (A)        | 1,2,3,6 (A)<br>1,2,3,4,5,6,7,8 (bt) |
| PoE Mode                                                                                | IEEE 802.3af/at    | IEEE 802.3af/at                     | IEEE 802.3af/at    | IEEE 802.3af/at                     |
| PoE Scheduling                                                                          | ●                  | ●                                   | ●                  | ●                                   |
| System PoE Budget                                                                       | 240W/75°C          | 480W/75°C                           | 360W/75°C          | 480W/75°C                           |
| SW/Protocol                                                                             |                    |                                     |                    |                                     |
| Management (SNMP V1/2c/3, CLI, Web, Trap,RMON)                                          | ●                  | ●                                   | ●                  | ●                                   |
| Traffic Priority (QoS)                                                                  | ●                  | ●                                   | ●                  | ●                                   |
| VLAN,P-VLAN, QinQ, GVRP                                                                 | ●                  | ●                                   | ●                  | ●                                   |
| IGMP Query, Snooping, GMRP                                                              | ●                  | ●                                   | ●                  | ●                                   |
| IEEE 802.1AB LLDP                                                                       | ●                  | ●                                   | ●                  | ●                                   |
| IEEE 1588 PTP v1/v2                                                                     | ●                  | ●                                   | ●                  | ●                                   |
| Jumbo Frame                                                                             | 9Kbytes            | 9Kbytes                             | 9Kbytes            | 9Kbytes                             |
| DHCP (Server, Client, Opt 82, Port Based Server)                                        | ●                  | ●                                   | ●                  | ●                                   |
| HW/ME                                                                                   |                    |                                     |                    |                                     |
| Housing Protection (IP)                                                                 | IP31               | IP31                                | IP31               | IP31                                |
| Dimension (HxWxD mm)                                                                    | 135 x 96 x 132     | 135 x 96 x 132                      | 189 x 96 x 132     | 189 x 96 x 132                      |
| Mounting                                                                                | DIN Rail           | DIN Rail                            | DIN Rail           | DIN Rail                            |
| Operating Temperature                                                                   | -40~75°C           | -40~75°C                            | -40~75°C           | -40~75°C                            |
| MTBF (hrs)                                                                              | 551,403 hrs        | 551,403 hrs                         | 1,243,697 hrs.     | TBC                                 |
| Certification                                                                           |                    |                                     |                    |                                     |
| Regulatory/Approval                                                                     | CE/FCC/EN50121-4   | CE/FCC/EN50121-4                    | CE/FCC/EN50121-4   | CE/FCC/EN50121-4                    |
| Compliance Standard                                                                     |                    |                                     |                    |                                     |

● Supported



| Unmanaged Industrial PoE Switch |                                                          |                                                      |                               |                                      |              |                                   |                   |                                 |
|---------------------------------|----------------------------------------------------------|------------------------------------------------------|-------------------------------|--------------------------------------|--------------|-----------------------------------|-------------------|---------------------------------|
| Interface                       |                                                          |                                                      |                               |                                      |              |                                   |                   |                                 |
| Total Ports Number              | 8                                                        | 8                                                    | 6                             | 10/6                                 | 10           | 5                                 | 10                | 5                               |
| 100/1000TX Ports                | 8 x M12-X                                                | 1 x M12-X                                            | 4 x 100/1000M<br>1 x 1000M    | 2 x RJ-45<br>(3810G/3806G)           | 2            |                                   | 8                 | 4(3205GP-1F)<br>5(3205GP)       |
| 10/100 TX Ports                 |                                                          | 7 x M12-D                                            |                               | 8 x (3810G)/4(3806G)                 | 8            | 5(3705)/4( 3705f)                 |                   |                                 |
| 100/1000M Combo                 |                                                          |                                                      |                               |                                      |              |                                   | 2                 |                                 |
| SFP Ports                       |                                                          |                                                      | 1 x 100/1000M                 | 2 x 1000M(3810Gf)<br>2 x 100M(3810f) |              | 1 x 100M(SC)<br>(JetNet 3705f)    |                   | 1 x 1000M<br>(JetNet 3205GP-1F) |
| DI/DO (Dry Relay)               |                                                          |                                                      | 1 x DO                        | 1 x DO                               |              | 1 x DO                            | 1 x DO            | 1 x DO                          |
| DC Power input                  | 2 x 12-24V                                               |                                                      | 2 x 12-36V                    | 1 x 12-24V<br>1 x 8-32V(3810G V2)    | 1 x 48V      | 2 x 48V                           | 2 x 12V-56V       | 2 x 44V-57V                     |
| Hi-Pot                          | AC 1KV                                                   |                                                      | AC 1.5KV                      | AC 1.5KV                             |              | AC 1.2KV                          | AC 1.2KV          | AC 1.2KV                        |
| Power Over Ethernet             |                                                          |                                                      |                               |                                      |              |                                   |                   |                                 |
| PoE Ports                       | 8                                                        | 8                                                    | 4                             | 8 / 4(3806G)                         | 8            | 4                                 | 8                 | 4                               |
| Power Feeding Mode              | M12-X: V+(1,2), V-(3,4)                                  | M12-X : V+(1,2), V-(3,4)<br>M12-D : V+(1,3), V-(2,4) | 1,2,3,6 (A)                   | 4,5,7,8 (B)                          |              | 4,5,7,8 (B)                       | 1,2,3,6 (A)       | 1,2,3,6 (A)                     |
| PoE Mode                        | IEEE 802.3af/at                                          |                                                      | IEEE 802.3af/at               | IEEE 802.3af                         |              | IEEE 802.3af                      | IEEE 802.3af/at   | IEEE 802.3af/at                 |
| System PoE Budget               | 180W @24V                                                | 120W @24V<br>60 W @ 12V                              | 110W@24V, 65℃<br>90W@24V, 75℃ | 65W@24V, 60℃                         | 65W@48V, 70℃ | 60W                               | 240W              | 112W                            |
| Features                        |                                                          |                                                      |                               |                                      |              |                                   |                   |                                 |
| QoS                             | ●                                                        | ●                                                    |                               | ●                                    | ●            |                                   | ●                 |                                 |
| Failure Alarm                   |                                                          |                                                      | Port, Power                   | Port                                 |              | Port, Power                       | Power             | Power                           |
| Jumbo Frame                     | 10Kbytes                                                 |                                                      | 9Kbytes                       |                                      |              |                                   | 10Kbytes          | 9Kbytes                         |
| HW/ME                           |                                                          |                                                      |                               |                                      |              |                                   |                   |                                 |
| Housing Protection (IP)         | IP41 Steel Metal<br>IP54 Steel Metal by request          |                                                      | IP31 Steel Metal              | IP31 Aluminum                        |              | IP31 Aluminum                     | IP31 Metal        | IP31 Metal                      |
| Dimension (HxWxD mm)            | 116 x 58 x 146                                           |                                                      | 140 x 55 x 119                | 149 x 66 x 131.2                     |              | 108 x 164.8 x 33.8                | 135 x 96.18 x 132 | 120 x 30 x 108                  |
| Mounting                        | Wall Mount                                               |                                                      | DIN Rail                      | DIN Rail                             |              | DIN Rail                          | DIN Rail          | DIN Rail                        |
| Operating Temperature           | -40~75℃                                                  |                                                      | -40~75℃                       | -25~60℃                              | -25~70℃      | -25~70℃ (3705)<br>-10~70℃ (3705f) | -40~75℃           | -40~75℃                         |
| Certification                   |                                                          |                                                      |                               |                                      |              |                                   |                   |                                 |
| RoHS                            | ●                                                        | ●                                                    | ●                             | ●                                    | ●            | ●                                 | ●                 | ●                               |
| Regulatory/ Approval            | CE/FCC/EN50155/EN50121-4/<br>EN50121-3-2/E-Mark 13/ITxPT |                                                      | CE/FCC/UL                     | CE/FCC/UL                            |              | CE/FCC/UL                         | CE/FCC            | CE/FCC/UL                       |
| Compliance Standard             | Heavy Industrial                                         |                                                      | NEMA TS2                      |                                      |              |                                   |                   |                                 |
| ● Supported                     |                                                          |                                                      |                               |                                      |              |                                   |                   |                                 |



| Media Converter                  |                          |                          |                          |                            |                          |                                                 |                                               |                                                 |                                               |                                               |
|----------------------------------|--------------------------|--------------------------|--------------------------|----------------------------|--------------------------|-------------------------------------------------|-----------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Interface                        |                          |                          |                          |                            |                          |                                                 |                                               |                                                 |                                               |                                               |
| Total Ports Number               | 2                        | 2                        | 2                        | 4                          | 2                        | 3                                               | 4                                             | 2                                               | 3                                             | 2                                             |
| Number of 10/100TX ports         |                          |                          |                          |                            |                          | 1                                               | 2                                             | 1                                               | 2                                             | 1                                             |
| Number of 10/ 100/ 1000TX port   |                          |                          | 1                        | 2                          | 1                        |                                                 |                                               |                                                 |                                               |                                               |
| Fiber Ports                      | 1X 100/1000SFP           | 1X 100/1000SFP           |                          |                            | 1X 100/1000SFP           |                                                 | 2 x 100FX/SC<br>2km (2302-m)<br>30km (2302-s) | 1 x 100FX/SC<br>2km (2301S-m)<br>30km (2301S-s) | 1 x 100FX/SC<br>2km (1302-m)<br>30km (1302-s) | 1 x 100FX/SC<br>2km (1301-m)<br>30km (1301-s) |
| other ports                      |                          |                          |                          |                            |                          | 1 x VDSL2                                       |                                               |                                                 |                                               |                                               |
| IEEE 802.3 af/at                 | ●                        | ●                        | ●                        | ●                          |                          |                                                 |                                               |                                                 |                                               |                                               |
| Power Input                      | 2 x DC 44-57V            | 2 x DC 44-57V            | 2 x DC 44-57V            | 1 x DC 44-57V              | 2 x DC 10-60V            | 2 x DC 12~48V<br>(1 Terminal &<br>1 Power Jack) | 2 x DC 10~60V                                 | 2 x DC 10~60V                                   | 1x DC 18~32V                                  | 1 x DC 18~32V                                 |
| Event Alarm                      | Power Alarm              | Power Alarm              | Power Alarm              |                            | Power Alarm              |                                                 | ●                                             | ●                                               | Port Alarm                                    |                                               |
| Hi-Pot (AC 1.5KV)                | ●                        | ●                        | ●                        | ●                          | ●                        | ●                                               | ●                                             | ●                                               | ●                                             | ●                                             |
| Power over Ethernet              |                          |                          |                          |                            |                          |                                                 |                                               |                                                 |                                               |                                               |
| PoE ports                        | 1                        | 1                        | 1                        | 2                          |                          |                                                 |                                               |                                                 |                                               |                                               |
| Power Feeding Mode               | 1,2,3,6 (A)              | 1,2,3,6 (A)              | 1,2,3,6 (A)              | 1,2,3,6 (A)<br>4,5,7,8 (B) |                          |                                                 |                                               |                                                 |                                               |                                               |
| PoE Mode                         | IEEE 802.3 af/at/bt      | IEEE 802.3 af/at         | IEEE 802.3 af/at/bt      | IEEE 802.3 af/at           |                          |                                                 |                                               |                                                 |                                               |                                               |
| System Power Budget              | 90W                      | 30W                      | 90W                      | 60W                        |                          |                                                 |                                               |                                                 |                                               |                                               |
| Features                         |                          |                          |                          |                            |                          |                                                 |                                               |                                                 |                                               |                                               |
| QoS                              | ●                        | ●                        | ●                        |                            | ●                        | ●                                               |                                               |                                                 |                                               |                                               |
| Failure Alarm                    | ●                        | ●                        | ●                        |                            |                          |                                                 |                                               |                                                 |                                               |                                               |
| SW/Protocol                      |                          |                          |                          |                            |                          |                                                 |                                               |                                                 |                                               |                                               |
| Link Loss Forwarding             | ●                        | ●                        |                          |                            | ●                        |                                                 |                                               | ●                                               |                                               | ●                                             |
| Switch Mode with Store & Forward | ●                        | ●                        |                          |                            | ●                        | ●                                               | ●                                             | ●                                               | ●                                             | ●                                             |
| Pure Converter Mode              |                          |                          |                          |                            |                          |                                                 | 2-Channel                                     | ●                                               |                                               | ●                                             |
| Converter Mode with Auto-change  |                          |                          |                          |                            |                          |                                                 |                                               | ●                                               |                                               |                                               |
| Modify Cut-through mode          |                          |                          |                          |                            |                          |                                                 |                                               | ●                                               |                                               |                                               |
| Broadcast storm filtering        | ●                        | ●                        |                          |                            | ●                        | ●                                               |                                               |                                                 |                                               |                                               |
| HW/ME                            |                          |                          |                          |                            |                          |                                                 |                                               |                                                 |                                               |                                               |
| Housing Protection (IP)          | IP 31 Steel              | IP 31 Steel              | IP 31 Steel              | IP 30 Steel                | IP 31 Steel              | IP 30 Aluminum                                  | IP 30 Aluminum                                | IP 31 Steel                                     | IP31 Aluminum                                 | IP31 Aluminum                                 |
| Dimension (HxWxD mm)             | 120 x 30 x 99            | 120 x 30 x 99            | 120 x 30 x 99            | 111.8 x 30 x 89.5          | 120 x 30 x 99            | 114.8 x 110 x 29.6                              | 120 x 55 x 108                                | 120 x 30 x 99                                   | 111.8 x 30 x 98.2                             | 70 x 30 x 89                                  |
| Mounting                         | Din-rail                 | Din-rail                 | Din-rail                 | Din-rail                   | Din-rail                 | Din-rail<br>Wall mount                          | Din-rail                                      | Din-rail                                        | Din-rail                                      | Din-rail                                      |
| Operating Temerature             | -40~75°C                 | -40~75°C                 | -40~75°C                 | -40~75°C                   | -40~75°C                 | -40~70°C                                        | -25~75°C<br>-40~75°C (-w)                     | -40~75°C                                        | -10~70°C<br>-40~70°C (-w)                     | -10~70°C<br>-40~80°C (-w)                     |
| MTBF (hurs)                      |                          | >313,000                 |                          | >313,000                   | >313,000                 | >897,000                                        | >813,000                                      | >1,324,000                                      | >632,000                                      | >506,000                                      |
| Certificate                      |                          |                          |                          |                            |                          |                                                 |                                               |                                                 |                                               |                                               |
| Regulatory/ Approval             | CE/FCC                   | CE/FCC                   | CE/FCC                   | CE/FCC                     | CE/FCC                   | CE/FCC                                          | CE/FCC                                        | CE/FCC                                          | CE/FCC                                        | CE/FCC                                        |
| Compliance Standard              | EN50121-4<br>Complicance | EN50121-4<br>Complicance | EN50121-4<br>Complicance |                            | EN50121-4<br>Complicance |                                                 | EN50121-4<br>Complicance                      | EN50121-4                                       |                                               |                                               |
| ● Supported                      |                          |                          |                          |                            |                          |                                                 |                                               |                                                 |                                               |                                               |



JetWave 4221HP  
JetWave 4211HP



JetWave 2460  
JetWave 2460E



JetWave 3220 V3  
JetWave 3220 V3-M12



JetWave 2212X/S/G



JetWave 2211C

| Wireless LAN Access Point     |                                                                                                                     |                                                           |                                                                                   |                                                                                                    |                                  |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------|
| Interfaces                    |                                                                                                                     |                                                           |                                                                                   |                                                                                                    |                                  |
| Ethernet                      | 1x GERJ-45                                                                                                          | 1x FERJ-45                                                | 2x GERJ-45 (or M12)                                                               | 2x FERJ-45                                                                                         | 1x FERJ-45                       |
| WIFI                          | (JetWave 4221HP)<br>1x 2.4G 802.11n +<br>1x 5G 802.11ac<br>(JetWave 4221HP)<br>1x 2.4G 802.11n or<br>1x 5G 802.11ac | 1x 2.4G/5G 802.11n                                        | 2x 2.4G/5G 802.11n/ac                                                             | (JetWave 2212X/S)<br>1x 2.4G/5G 802.11n<br>(JerWave 2212G)<br>1x 2.4G 802.11n or<br>1x 5G 802.11ac | 1x 2.4G/5G 802.11n               |
| WIFI Antenna<br>Socket        | (JetWave 4221HP)<br>4 (Dual 2T2R MIMO)<br>(JetWave 4221HP)<br>2 (2T2R MIMO)                                         | (JetWave 2460E)<br>2 (2T2R MIMO)                          | 4 (Dual 2T2R MIMO)                                                                | 2 (2T2R MIMO)                                                                                      | 2 (2T2R MIMO)                    |
| Serial                        |                                                                                                                     |                                                           |                                                                                   | 2x RS-232/422/485<br>(JetWave 2212S)                                                               |                                  |
| PoE                           | PoE PD                                                                                                              | Passive PoE                                               | PoE PD                                                                            | Passive PoE<br>(JetWave 2212G)                                                                     | Passive PoE                      |
| DI/DO                         |                                                                                                                     |                                                           | 1/1                                                                               | 0/1                                                                                                | 1/1                              |
| Power Input                   | 802.3at PoE (Eth 1)                                                                                                 | Passive PoE (Eth 1)                                       | 802.3at PoE (Eth 1)<br>Dual DC 24V(12~48V)                                        | Dual DC 24V                                                                                        | DC 24V                           |
| Protocols                     |                                                                                                                     |                                                           |                                                                                   |                                                                                                    |                                  |
| Wireless Mode                 | AP, Client,<br>WDS-AP/Client,<br>Redundant AP/Client<br>JSM AP/Client                                               | AP, Client,<br>WDS-AP/Client<br>JSM AP/Client<br>Repeater | AP, Client,<br>WDS-AP/Client,<br>Redundant AP/Client<br>JSM AP/Client<br>Repeater | AP, Client,<br>WDS-AP/Client<br>JSM AP/Client<br>Repeater                                          | Client<br>JSM Client             |
| Routing                       | LAN/WIFI to WAN                                                                                                     | LAN/WIFI to WAN                                           | LAN/WIFI to WAN                                                                   |                                                                                                    |                                  |
| NAT/Firewall                  | ●                                                                                                                   | ●                                                         | ●                                                                                 |                                                                                                    |                                  |
| VPN                           | OpenVPN/IPsec                                                                                                       | OpenVPN/IPsec                                             | OpenVPN/IPsec                                                                     |                                                                                                    |                                  |
| Link Fault<br>Pass-Through    | ●                                                                                                                   | ●                                                         | ●                                                                                 |                                                                                                    |                                  |
| Fast Roaming                  | ●                                                                                                                   | ●                                                         | ●                                                                                 | ●                                                                                                  | ●                                |
| 802.1x, MAC<br>Access Control | ●                                                                                                                   | ●                                                         | ●                                                                                 | ●                                                                                                  | ●                                |
| Configuration                 | CLI, Web, Utility,<br>SNMP                                                                                          | CLI, Web, Utility,<br>SNMP                                | CLI, Web, Utility, SNMP                                                           | CLI, Web, Utility,<br>SNMP                                                                         | CLI, Web, Utility,<br>SNMP       |
| Link Test Tools               | ●                                                                                                                   | ●                                                         | ●                                                                                 |                                                                                                    |                                  |
| Event Alarm                   | E-mail, Syslog,<br>SNMP Trap                                                                                        | E-mail, Syslog,<br>SNMP Trap                              | DO, E-mail, Syslog,<br>SNMP Trap                                                  | DO, E-mail, Syslog,<br>SNMP Trap                                                                   | DO, E-mail, Syslog,<br>SNMP Trap |
| Mechanical                    |                                                                                                                     |                                                           |                                                                                   |                                                                                                    |                                  |
| Dimension<br>(H x D x W mm)   | 262 x 186 x 55                                                                                                      | 268 x 150 x 55                                            | 149 x 120.6 x 74                                                                  | 140 x 118 x 40                                                                                     | 100 x 100 x 35                   |
| Operating<br>Temperature      | -40~70°C                                                                                                            | -40~70°C                                                  | -40~70°C                                                                          | -40~70°C                                                                                           | -40~70°C                         |
| Housing                       | Aluminum (IP67)                                                                                                     | Plastic (IP67)                                            | Aluminum (IP31)                                                                   | Aluminum (IP31)                                                                                    | Iron (IP31)                      |
| Certification                 |                                                                                                                     |                                                           |                                                                                   |                                                                                                    |                                  |
| CE/FCC                        | ●                                                                                                                   | ●                                                         | ●                                                                                 | ●                                                                                                  | ●                                |
| E-Mark                        |                                                                                                                     |                                                           |                                                                                   | ●                                                                                                  | ●                                |
| Railway EMC                   | EN50121-4                                                                                                           | EN50121-4                                                 | EN50121-4/EN50155                                                                 | EN50121-4                                                                                          | EN50121-4                        |

● Supported

Standard

WIFI IEEE802.11a/g/n/ac

3G 3GPP Release 4,6,7

LTE 3GPP Release 8,9

Operating Frequency

2.4G WIFI FCC: 2.412~2.462GHz; CE: 2.412~2.472GHz

5G WIFI FCC: 5.170~5.250GHz and 5.745~5.825GHz, CE: 5.170~5.250GHz

3G GSM/GPRS/EDGE: Quad band 850/900/1800/1900MHz,  
UMTS/HSPA+: Five band 800/850/900/1900/2100MHz

LTE LTE-E: 800(20)/900(8)/1800(3)/2600(7)MHz  
LTE-U: 700(17)/850(5)/AWS1700/2100(4)/1900(2)MHz  
LTE-A: 2100(1)/1900(2)/1800(3)/1700(4)/850(5)/2600(7)/900(8)/700(28)MHz

\*DI: Digital Input; DO: Digital Output



JetWave 3420 V3  
JetWave 3420 V3-M12



JetWave 2714GF-LTE  
JetWave 2714GF-WIFI



JetWave 2714G-LTE  
JetWave 2714G-WIFI



JetWave 2111L  
JetWave 2411L



JetWave 2111  
JetWave 2411



JetWave 2114  
JetWave 2414



JetWave 4110L

| Mobile Cellular Router / Gateway |                                               |                                                                                |                                                                                |                                                                     |                                                                   |                                                                   | LoRa Gateway               |
|----------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------|
| Interfaces                       |                                               |                                                                                |                                                                                |                                                                     |                                                                   |                                                                   |                            |
| Ethernet                         | 2x GE RJ-45 (or M12)                          | 2x GE RJ-45<br>2x 100/1000 SFP                                                 | 4 x GE RJ-45                                                                   | 1x FERJ-45                                                          | 1x FERJ-45                                                        | 4x FERJ-45                                                        | 1 x RS485                  |
| WIFI                             | 1x 2.4G 802.11n or<br>1x 5G 802.11ac          | (JetWave 2714GF-WIFI)<br>1x 2.4G 802.11n or<br>1x 5G 802.11ac                  | (JetWave 2714G-WIFI)<br>1x 2.4G 802.11n or<br>1x 5G 802.11ac                   |                                                                     |                                                                   |                                                                   |                            |
| Cellular                         | LTE-E/A/U                                     | LTE-E/A/U                                                                      | LTE-E/A/U                                                                      | LTE-E/A/U<br>(JetWave 2111L LTE Cat 1)<br>(JetWave 2411L LTE Cat 4) | LTE-E/A/U<br>(JetWave 2111 LTE Cat 1)<br>(JetWave 2411 LTE Cat 4) | LTE-E/A/U<br>(JetWave 2114 LTE Cat 1)<br>(JetWave 2414 LTE Cat 4) |                            |
| LoRa                             |                                               |                                                                                |                                                                                |                                                                     |                                                                   |                                                                   | Private LoRa               |
| WIFI Antenna<br>Socket           | 2 (2T2R MIMO)                                 | 2 (2T2R MIMO)                                                                  | 2 (2T2R MIMO)                                                                  |                                                                     |                                                                   |                                                                   | 1 (1T1R)                   |
| Serial                           | 1x RS-232/422/485                             |                                                                                |                                                                                |                                                                     | 1x RS-232/422/485                                                 | 2x RS-232/422/485                                                 | 1x RS-485                  |
| PoE                              |                                               | 2xRJ45 (PSE)                                                                   | 4xRJ45 (PSE)                                                                   | Passive PoE                                                         |                                                                   | Passive PoE                                                       |                            |
| DI/DO                            | 1/1                                           | 0/1                                                                            | 0/1                                                                            | 1/1                                                                 | 1/1                                                               | 2/2                                                               | 2/2                        |
| Power Input                      | 802.3at PoE(Eth 1)<br>Dual DC 24V(12~48V)     | Dual DC 54V<br>(48V-57V)                                                       | Dual DC 9-48V                                                                  | DC 24V-48V                                                          | DC 24V                                                            | DC 24V-48V                                                        | DC 12V-36V                 |
| Protocols                        |                                               |                                                                                |                                                                                |                                                                     |                                                                   |                                                                   |                            |
| Wireless Mode                    | AP, Client,<br>WDS-AP/Client<br>JSM AP/Client | AP, Client,<br>WDS-AP/Client<br>JSM AP/Client<br>Repeater<br>(WIFI model only) | AP, Client,<br>WDS-AP/Client<br>JSM AP/Client<br>Repeater<br>(WIFI model only) |                                                                     |                                                                   |                                                                   | P2P / Group<br>/ Broadcast |
| Routing                          | LAN/WIFI to LTE/WAN                           | LAN to LTE                                                                     | LAN to LTE                                                                     | LAN to 3G or LTE                                                    | LAN to 3G or LTE                                                  | LAN to 3G or LTE                                                  |                            |
| NAT/Firewall                     | ●                                             | ●                                                                              | ●                                                                              | ●                                                                   | ●                                                                 | ●                                                                 |                            |
| VPN                              | OpenVPN/IPsec                                 | OpenVPN/IPsec                                                                  | OpenVPN/IPsec                                                                  | OpenVPN/IPsec                                                       | OpenVPN/IPsec                                                     | OpenVPN/IPsec                                                     |                            |
| WAN Redundancy                   | WAN/LTE                                       |                                                                                |                                                                                |                                                                     |                                                                   |                                                                   |                            |
| Link Fault<br>Pass-Through       | ●                                             |                                                                                |                                                                                |                                                                     |                                                                   |                                                                   |                            |
| Fast Roaming                     | ●                                             |                                                                                |                                                                                |                                                                     |                                                                   |                                                                   |                            |
| 802.1x, MAC<br>Access Control    | ●                                             | ●                                                                              | ●                                                                              |                                                                     |                                                                   |                                                                   |                            |
| Configuration                    | CLI, Web, Utility, SNMP                       | CLI, Web, Utility, SNMP                                                        | CLI, Web, Utility, SNMP                                                        | CLI, Web, Utility, SNMP                                             | CLI, Web, Utility, SNMP                                           | CLI, Web, Utility, SNMP                                           | CLI, Web, Utility, SNMP    |
| Link Test Tools                  | ●                                             |                                                                                |                                                                                |                                                                     |                                                                   |                                                                   |                            |
| Auto IP Report                   | ●                                             | ●                                                                              | ●                                                                              | ●                                                                   | ●                                                                 | ●                                                                 |                            |
| Event Alarm                      | DO, E-mail, Syslog,<br>SNMP Trap              | DO, E-mail, Syslog,<br>SNMP Trap                                               | DO, E-mail, Syslog,<br>SNMP Trap                                               | DI/DO, E-mail, Syslog,<br>SNMP Trap                                 | DI/DO, E-mail, Syslog,<br>SNMP Trap                               | DI/DO, E-mail, Syslog,<br>SNMP Trap                               | DI/DO, Syslog              |
| Mechanical                       |                                               |                                                                                |                                                                                |                                                                     |                                                                   |                                                                   |                            |
| Dimension<br>(HxDxW mm)          | 149 x 120.6 x 74                              | 140 x 115 x 55                                                                 | 140 x 115 x 55                                                                 | 100 x 100 x 30                                                      | 100 x 100 x 35                                                    | 100 x 100 x 55                                                    | 100 x 100 x 48             |
| Operating<br>Temperature         | -40~70°C                                      | -40~75°C                                                                       | -40~75°C                                                                       | -40~70°C                                                            | -40~70°C                                                          | -40~70°C                                                          | -40~85°C                   |
| Housing                          | Aluminum (IP31)                               | Aluminum (IP31)                                                                | Aluminum (IP31)                                                                | Aluminum (IP31)                                                     | Aluminum (IP31)                                                   | Aluminum (IP31)                                                   | Plastic (IP68)             |
| Certification                    |                                               |                                                                                |                                                                                |                                                                     |                                                                   |                                                                   |                            |
| CE/FCC                           | ●                                             | ●                                                                              | ●                                                                              | ●                                                                   | ●                                                                 | ●                                                                 | ●                          |
| Railway EMC                      | EN50121-4<br>EN50155                          | EN50121-4                                                                      | EN50121-4                                                                      | EN50121-4                                                           | EN50121-4                                                         | EN50121-4                                                         |                            |

● Supported

Standard

WIFI IEEE802.11a/g/n/ac

3G 3GPP Release 4,6,7

LTE 3GPP Release 8,9

Operating Frequency

2.4G WIFI FCC: 2.412~2.462GHz; CE: 2.412~2.472GHz

5G WIFI FCC: 5.170~5.250GHz and 5.745~5.825GHz, CE: 5.170~5.250GHz

3G GSM/GPRS/EDGE: Quad band 850/900/1800/1900MHz,  
UMTS/HSPA+: Five band 800/850/900/1900/2100MHz

LTE LTE-E: 800(20)/900(8)/1800(3)/2600(7)MHz  
LTE-U: 700(17)/850(5)/AWS1700/2100(4)/1900(2)MHz  
LTE-A: 2100(1)/1900(2)/1800(3)/1700(4)/850(5)/2600(7)/900(8)/700(28)MHz

\*DI: Digital Input; DO: Digital Output

Omni Antenna

| JWA-2.4/5G-2dBi-SM-00 |                                        | JWA-2.4G-5dBi-NF-00 | JWA-2.4G-7dBi-NF-00 | JWA-2.4G-9dBi-NF-00 | JWA-5G-7dBi-NF-00   | JWA-2.4/5G-5/7dBi-NF-00 | JWA-5G-12dBi-NF-00  |
|-----------------------|----------------------------------------|---------------------|---------------------|---------------------|---------------------|-------------------------|---------------------|
| Application           | Indoor                                 | Outdoor             | Outdoor             | Outdoor             | Outdoor             | Outdoor                 | Outdoor             |
| Connector Type        | SMA                                    | N-Type              | N-Type              | N-Type              | N-Type              | N-Type                  | N-Type              |
| Gain (dBi)            | 2dBi                                   | 5dBi                | 7dBi                | 9dBi                | 7dBi                | 2.4G 5dBi<br>5G 7dBi    | 12dBi               |
| Angle                 | Horz                                   | 360°                | 360°                | 360°                | 360°                | 360°                    | 360°                |
|                       | Vert                                   | 360°                | 10° -12°            | 10° -12°            | 10° -12°            | 360°                    | 10° -12°            |
| Dimension (mm)        | 8 x 8 x 3                              | 18.7 x 2 x 2.2      | 29 x 2 x 2          | 46 x 2.3 x 2.3      | 19 x 2.2 x 2.2      | 19 x 2.2 x 2.2          | 45 x 2.2 x 2.2      |
| Remark                | AGV application<br>Point to multipoint | Point to multipoint | Point to multipoint | Point to multipoint | Point to multipoint | Point to multipoint     | Point to multipoint |

Directional Panel Antenna

| JWDA-2.4G-12dBi-NF-00 |                                 | JWDA-2.4G-14dBi-SM-00           | JWDA-5G-14dBi-NF-00             | JWDA-5G-22dBi-SM-00             |
|-----------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Frequency             | 2.4G                            | 2.4G                            | 5G                              | 5G                              |
| Application           | Outdoor                         | Outdoor                         | Outdoor                         | Outdoor                         |
| Connector Type        | N-Type                          | SMA                             | N-Type                          | SMA                             |
| Gain (dBi)            | 12dBi                           | 14dBi                           | 14dBi                           | 22dBi                           |
| Angle                 | Horz                            | 35°                             | 32°                             | 9°                              |
|                       | Vert                            | 30°                             | 30°                             | 9°                              |
| Dimension (mm)        | 20 x 12 x 3                     | 22 x 22 x 3.1                   | 22 x 22 x3.4                    | 38 x 38 x 18                    |
| Remark                | Point to Point<br>Long distance | Point to Point<br>Long distance | Point to Point<br>Long distance | Point to Point<br>Long distance |

RF Cable

| JWA-Cable-SM-to-SM-00 |                              | JWA-Cable-NM-to-NM-00      | JWA-Cable-NM-to-NM-WP-00   | JWA-Cable-NM-to-SM–WP-00 |
|-----------------------|------------------------------|----------------------------|----------------------------|--------------------------|
| Connector             | RP-SMA Male to RP-SMA Female | N-Type Male to N-Type Male | N-Type Male to N-Type Male | N-Type Male to SMA male  |
| Length                | 1500mm                       | 1500mm                     | 1500mm                     | 1500mm                   |

WiFi AP /Antenna distance reference table

| Model Name                 | Connector type | Frequency | Default Antenna | Omni Antenna          |                     |                     |                     |                   |                         |                    |
|----------------------------|----------------|-----------|-----------------|-----------------------|---------------------|---------------------|---------------------|-------------------|-------------------------|--------------------|
|                            |                |           |                 | JWA-2.4/5G-2dBi-SM-00 | JWA-2.4G-5dBi-NF-00 | JWA-2.4G-7dBi-NF-00 | JWA-2.4G-9dBi-NF-00 | JWA-5G-7dBi-NF-00 | JWA-2.4/5G-5/7dBi-NF-00 | JWA-5G-12dBi-NF-00 |
|                            |                |           |                 | 2.4G/5G 2dBi          | 2.4G 5dBi           | 2.4G 7dBi           | 2.4G 9dBi           | 5G 7dBi           | 2.4/5G-5/7dBi           | 5G 12dBi           |
|                            |                | SMA       | N-Type          | N-Type                | N-Type              | N-Type              | N-Type              | N-Type            | N-Type                  |                    |
| JetWave 2211C              | SMA            | 2.4G      | 0.2km           | 0.15km                | 0.6km               | 1km                 | 1.5 km              |                   | 1.5 km                  |                    |
|                            |                | 5G        | 0.15km          | 0.1km                 |                     |                     |                     | 1km               | 1.5 km                  | 1.5 km             |
| JetWave 2212 & 3000 series | SMA            | 2.4G      | 0.3km           | 0.15km                | 0.6km               | 1km                 | 1.5 km              |                   | 1.5 km                  |                    |
|                            |                | 5G        | 0.2km           | 0.1km                 |                     |                     |                     | 1km               | 1.5 km                  | 1.5 km             |
| JetWave 2460               | Embedded       | 2.4G/5G   | 1.5km           | n/a                   |                     |                     |                     |                   |                         |                    |
|                            |                | 2.4G      | 1.5km           | 0.15km                | 0.6km               | 1km                 | 1.5 km              |                   | 1.5 km                  |                    |
| JetWave 2460E              | N-Type         | 5G        | 1.5km           | 0.1km                 |                     |                     |                     | 1km               | 1.5 km                  | 1.5 km             |
| JetWave 4221/4211          | N-Type         | 2.4G      | n/a             | 0.15km                | 0.6km               | 1km                 | 1.5 km              |                   | 1.5 km                  |                    |
|                            |                | 5G        |                 | 0.1km                 |                     |                     |                     | 1km               | 1.5 km                  | 1.5 km             |
| JetWave 4020               | Embedded       | 2.4G      | 1.5km           | n/a                   |                     |                     |                     |                   |                         |                    |
|                            |                | 5G        | 1.5km           |                       |                     |                     |                     |                   |                         |                    |
| JetWave 4020E              | N-Type         | 2.4G      | n/a             |                       | 1km                 | 1.2km               | 2 km                |                   | 1.5 km                  |                    |
|                            |                | 5G        |                 |                       |                     |                     |                     | 2 km              | 1.5 km                  | 3 km               |
| JetWave 4221/4211 HP       | N-Type         | 2.4G      |                 |                       | 1.5km               | 2.4km               | 3 km                |                   | 3km                     |                    |
|                            |                | 5G        |                 |                       |                     |                     | 3 km                | 4km               | 4 km                    |                    |

| Model Name                 | Connector type | Frequency  | Default Antenna | Directional Panel Antenna |                       |                     |                     |
|----------------------------|----------------|------------|-----------------|---------------------------|-----------------------|---------------------|---------------------|
|                            |                |            |                 | JWDA-2.4G-12dBi-NF-00     | JWDA-2.4G-14dBi-SM-00 | JWDA-5G-14dBi-NF-00 | JWDA-5G-22dBi-SM-00 |
|                            |                |            |                 | 2.4G 12dBi N-Type         | 2.4G 14dBi SMA        | 5G 14dBi N-Type     | 5G 22dBi SMA        |
| JetWave 2211C              | SMA            | 2.4G       | 0.2km           |                           |                       |                     |                     |
|                            |                | 5G         | 0.15km          | 2.5 km                    | 3 km                  | 2.5 km              | 3.5 km              |
| JetWave 2212 & 3000 series | SMA            | 2.4G       | 0.3km           |                           |                       |                     |                     |
|                            |                | 5G         | 0.2km           |                           |                       | 2.5 km              | 3.5 km              |
| JetWave 2460               | Embedded       | 2.4G/5G    | 1.5km           | n/a                       |                       |                     |                     |
| JetWave 2460E              | N-Type         | 2.4G       | 1.5km           | 2.5 km                    | 3 km                  |                     |                     |
|                            |                | 5G         | 1.5km           |                           |                       | 2.5 km              | 3.5 km              |
| JetWave 4221/4211          | N-Type         | 2.4G       | n/a             | 2.5 km                    | 3 km                  |                     |                     |
|                            |                | 5G         |                 |                           |                       | 2.5 km              | 3.5 km              |
| JetWave 4020               | Embedded       | 2.4G<br>5G | 1.5km<br>1.5km  | n/a                       |                       |                     |                     |
| JetWave 4020E              | N-Type         | 2.4G       | n/a             | 3 km                      | 3km                   |                     |                     |
|                            |                | 5G         |                 |                           |                       | 3.5km               | 5km                 |
| JetWave 4221/4211 HP       | N-Type         | 2.4G       | n/a             | 4 km                      | 4.5km                 |                     |                     |
|                            |                | 5G         |                 |                           |                       | 7km                 | 10km                |

Industrial Ethernet Switch  
Industrial Power-over-Ethernet Switch  
Industrial Wi-Fi/Cellular Solution  
Industrial Media Converter  
Industrial Connectivity  
Network Management Software

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