Industrial Full Gigabit 8 + 2G Combo DC Booster Switch
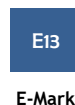
JetNet 3210GP-2C

- 8 Gigabit Base TX ports and 2 Gigabit RJ-45/ SFP combo ports
- SFP ports support 100/1000 Mbps
- IEEE 802.3af 15.4W / IEEE 802.3at 30W High Power PoE
- Total PoE Budget 240W @ 75ºC ambient temperature
- IEEE 802.1p Quality of Service (QoS) for packet forwarding precedence
- 10K bytes Jumbo Frame for large file transmission
- Broadcast storm packet filtering
- Dual DC Power input 12~56V
- Traffic Standard: E-mark E13
- Hi-Pot Isolation Protection for ports and power
- -40~75℃ operating temperature

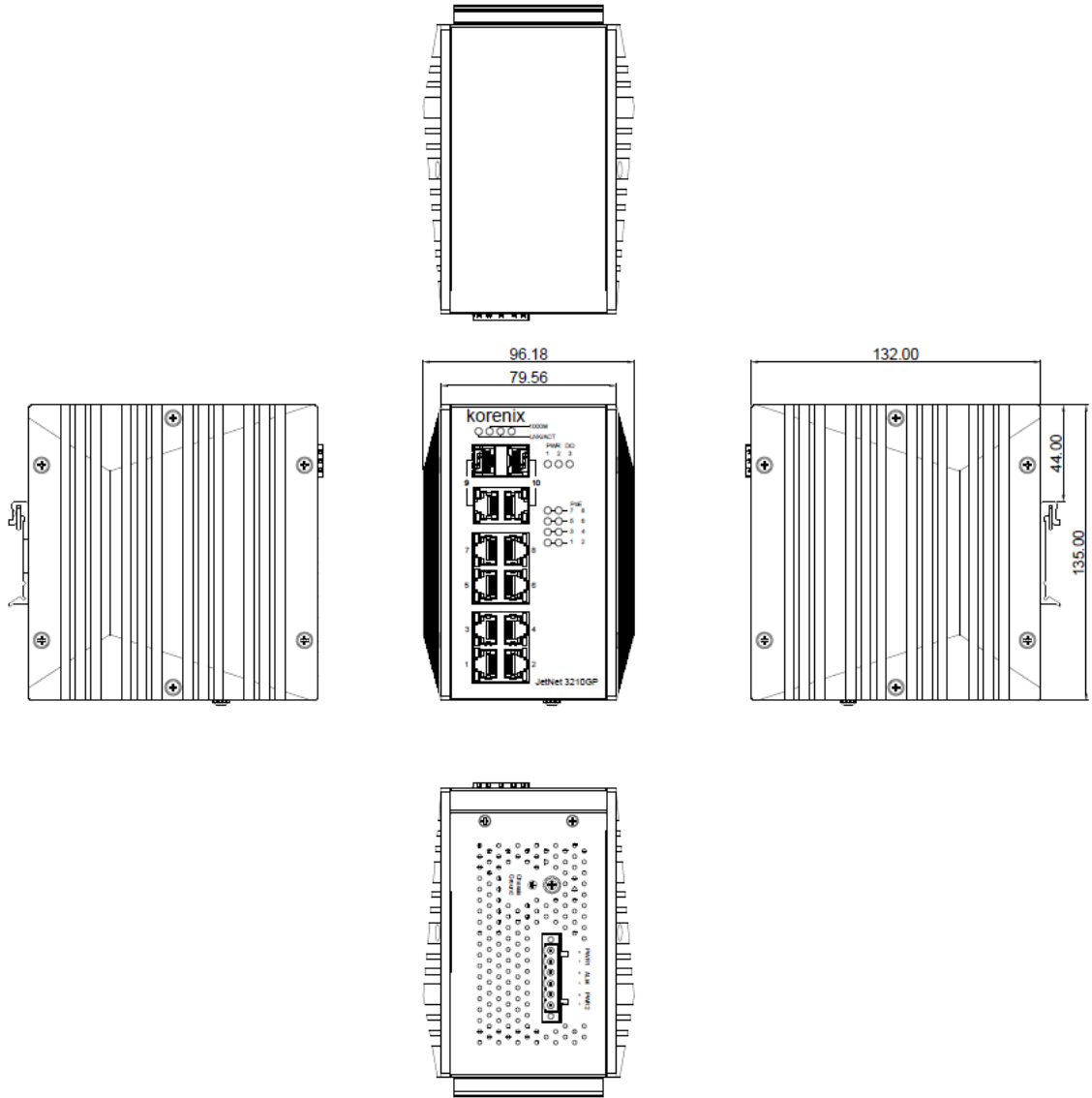Heavy Industrial   Isolation   Wide Temp +75 -40   **G** Gigabit   EN50121-4   **E13** E-Mark

Overview

The JetNet 3210GP-2C is a Power-over-Ethernet Switch with Din-rail design. It is designed for IP Surveillance in harsh environments such as Train, MRT, Vehicle, and LRV systems and is equipped with 8 PoE/PSE GbE Ethernet ports. The two Gigabit Ethernet combo ports provide high speed uplink to connect with higher level backbone switches.

The PSE system enables 30W high power PoE function and is compliance with IEEE 802.3af/at standard. The switch system adapts to vehicle/railway electrical power system and supports several types of input voltage rating to correspond with different train electrical power systems. With multi-backup features, the JetNet 3210GP-2C is capable to construct IP Surveillance network on the vehicle/train, ensure passenger's safety and improve train network reliability.

Dimensions (Unit = mm)

96.18
79.56

132.00

44.00

135.00

korenix

JetNet 3210GP

Specification

Technology	
Standard	IEEE 802.3u 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-TX Gigabit Ethernet IEEE 802.3z 1000Base-X Gigabit Ethernet IEEE 802.3af Power over Ethernet IEEE 802.3at High Power PoE with 2-Event classification IEEE 802.3x Flow control and back-pressure

Network Performance	
Switch Technology	Store and Forward technology
System Throughput	23.8Mega packets per second, 64Bytes packet length
Transfer packet size	64Bytes ~1518Bytes
MAC Address	16K MAC address table
Packet Buffer	2 Mega bits shared packet buffer
Broadcast storm control:	Default enabled Traffic threshold: 25M bps@1000Mbps; 10M bps@100Mbps; 1M bps@10 Mbps
Jumbo frame	Up to 10K Bytes
Transfer performance	14,880 pps @10Mbps 148,800 pps @100Mbps 1,488,100 pps @1000Mbps
Quality of Service	Compliance with IEEE802.1p with WRR 8:4:2:1 for 4 queues - Highest/High/Low/Lowest. Packets are classified as Highest(6,7), High(4,5), Low(0,3), Lowest(1,2), default Low(0).

Power over Ethernet	
Power over Ethernet	IEEE 802.3af/at, End-Span wiring architecture
PoE forwarding conductor	RJ-45: V+(1,2), V- (3,6)
Power forwarding capability	IEEE 802.3af:15.4 W, IEEE802.3at:30W
PoE System Power Budget	Power Budget Reserve by PD declaration. The power budget control system will reserve power for connected PD device. Once the latest PD device claimed power over the system surplus power budget, the highest port of PoE will not be active due to port order mechanism. System Power Budget: 240Watts at DC 24V/ 120 Watts at DC 12V

Interface	
Enclosure Port	10/100/1000 Mbps Ethernet port: 8 x RJ-45 1000 Mbps Ethernet port : 2 x RJ-45 with auto MDI/MDI-X function 100Mbps / 1000Mbps Fiber port : 2 x SFP Socket for SFP fiber transceiver Relay Output and Power input port: 6-Pin removable terminal block connector
Ethernet Cable	100 Base-TX: 2-pair Cat.5E / Cat.6 FTP/STP cable, EIA/TIA 568B 100 Ohm, 100Meters 1000 Base-T: 2-pair Cat.5E/Cat.6 FTP/STP cable, EIA/TIA 568B 100 Ohm, 100Meters
Dry Relay	Dry Relay output: 1A / DC 24V
LED Indicators	10/100/1000Mbps RJ-45 port: Link (Green on)/Activity (Green Blinking),Speed 1000 (Amber on) PoE: PoE forwarding (Amber on), PoE abnormal or detection (Amber off) 100/1000Mps SFP: Link/Activity (Green on), Speed 1000 Link (Amber on) Power: Power on (Green on) Alarm: Alarm(Red on)

Specification

Mechanical	
Installation	DIN-Rail mounting
Case	Steel metal
Ingress Protection	IP31
Dimension (mm)	96.18 (W) x 132(D) x 135 (H) – w/o DIN Rail Clip
Installation	DIN-rail mounting
Weight	2Kg

Power Requirement	
System power	Input voltage: DC 12V or DC 24V, variation range DC 12- 56V 2x DC power input with polarity reverse protection
Input Range	DC 12-56V
Power Consumption	12V AF: PoE 120W 24V AT: PoE 240W

Environmental	
Operating Temperature	-40 ~75°C
Operating Humidity	0% ~ 95%, non-condensing
Storage Temperature	-40 ~ 85°C, 0% ~90% Humidity
Hi-Pot	DC 2.25KV for power to chassis ground, Ethernet port to chassis ground

Regulatory Approvals	
Railway Standard	EN 50121-4
Traffic	E-mark E13
EMC	EMI: EN50121-3-2, FCC Class A, IEC/EN61000-6-4 EMS:EN50121-3-2/EN50121-1, IEC/EN61000-6-2 IEC/EN61000-4-2, IEC/EN61000-4-3, IEC/EN61000-4-4, IEC/EN61000-4-5, IEC/EN61000-4-6, IEC/EN61000-4-8, IEC/EN61000-4-9
Variation/Shock	IEC 61373
Free Fall	IEC 60068-2-32 with package Note-1
Warranty	5 Years

Ordering Information

Model Name	Description
JetNet 3210GP-2C	Industrial 10-port unmanaged DC Booster PoE Switch, 8-port Gigabit RJ-45, 2-port Gigabit RJ-45/SFP combo , Typical Power Input DC 24V, -40~75°C
	Includes: • JetNet 3210GP-2C • DIN Rail kit • Quick Installation Guide Note: Please download User Manual from Korenix website

Note-1: Korenix's internal testing