JetNet 3810Gf / 3810f

Industrial 8 PoE + 2 GbE / FE SFP Booster PoE Switch

Vehicle with 12~24V

CE FC RoHS

2 FE/ Giga SFP | 12~24VDC Booster | 65W* | QoS | -25~60°C

- 8 10/100 TX PoE plus two 100FX SFP fiber uplink ports (JetNet 3810f)
- 8 10/100 TX PoE plus two 1000FX SFP fiber uplink ports (JetNet 3810Gf)
- Vehicle PoE: DC 12V~24V input, deliver 8 port PoE @48V
- 802.3af compliant PoE: Total power budget is 65W* with max. 15.4W per port
- Two Gigabit/Fast Ethernet SFP ports for larger uplink bandwidth of surveillance
- Flexible fiber transmission by SFP transceivers
- Support QoS for optimizing video and VoIP stream
- Fault relay for active warning of port failure
- -25~60°C operating temperature

Overview

JetNet 3810Gf / 3810f series are Industrial PoE Boost Switch designed with 8 Fast Ethernet PoE and 2 Gigabit / 100Mbps SFP ports to extend the high and low bandwidth data through fiber uplink connection for flexible distance mobile surveillance applications.

With the exclusive built-in Korenix patented vehicle PoE technology, the switches convert DC 12~24V from a battery to DC 48V for 8 PoE ports, offering up to 65W power to IEEE 802.3af compliant devices and therefore, making the deployment of standard PoE IP cameras feasible on buses, ships, carriages, etc. To guarantee the proper operation of the network system, JetNet 3810Gf / 3810f combine fault relay alarm function for providing auto warning once a port-link failure occurs. Combining QoS into the rugged design with -25~60°C wide operating temperature, JetNet 3810Gf and JetNet 3810f ensure the reliable and high quality video stream transmission under severe industrial environments.

12~24V Power Booster to 48V PoE

JetNet 3810Gf / 3810f series designed with Korenix patented DC 12~24V to 48V boost technology, is the best solution for the vehicle PoE applications, where DC 48V power supply is not available. With the built-in power booster, the PoE switch series can be powered by DC 12~24V to deliver 15.4W per port and 65W* per unit at DC 48V to PoE-enabled devices such as IP cameras, PoE Wireless APs, PoE IP phones…etc. and therefore, be easily applied in vehicles or carriages.

Flexible Distance Transmission via Dual Gigabit / Fast Ethernet SFP ports

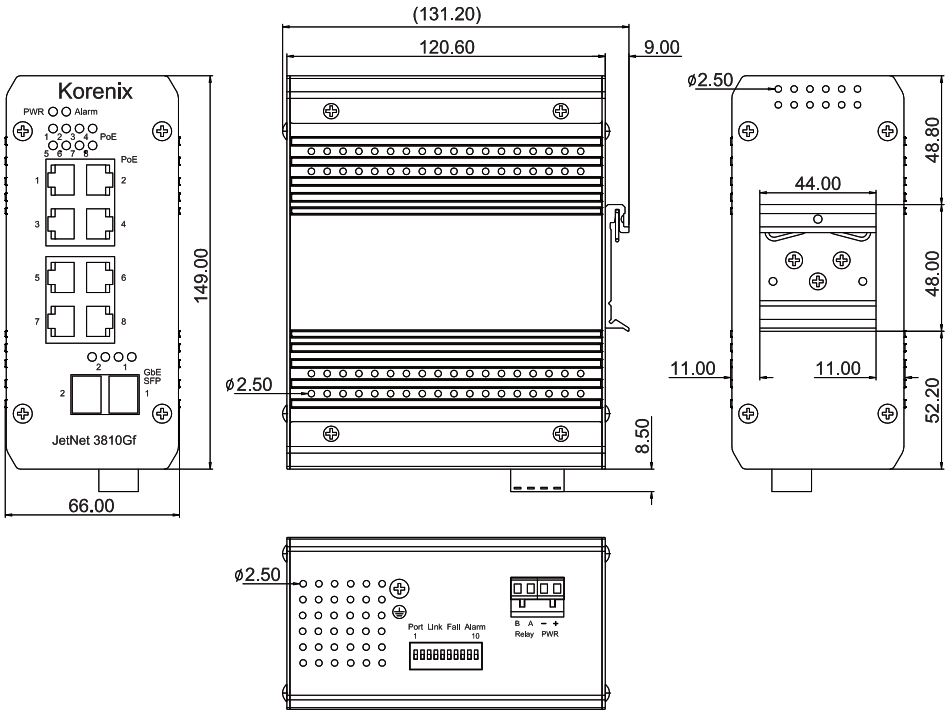
JetNet 3810Gf / 3810f series features eight PoE ports and two uplink fast Ethernet / gigabit SFP combo ports. Customers can connect up to 8 IP cameras and uplink the large images to flexible distance applications through the 100Mbps and 1000Mbps single mode and multi mode SFP combo ports.

QoS and Fault Relay provided

The JetNet 3810Gf / 3810f series supports QoS to ensure the high quality of video traffic transmission by simply adjusting the priority of data transfer. In addition, it provides fault relay to automatically warn users if any abnormal situation occurs. As a result, users can quickly handle the emergency and shorten the failover time.

*Specifications may change without prior notice

Dimensions



Specifications

Technology

Standard:
IEEE 802.3 10Base-T Ethernet
IEEE 802.3u 100Base-TX Fast Ethernet
IEEE802.3u 100 Base- Fx (JetNet 3810f)
IEEE802.3z 1000 Base-Fx (JetNet 3810Gf)
IEEE802.3x Flow Control and Back-pressure
IEEE 802.3af Power Over Ethernet
IEEE 802.1p Class of Service

Performance

Switch Technology: Store and Forward Technology with 32Gbps Switch Fabric
System Throughput: 14,880pps for 10M Ethernet, 148,800pps for 100M Fast Ethernet, 1,488,100pps for Gigabit Ethernet
Transfer packet size: 64 bytes to 1522 bytes for untagged and tagged frames
MAC Address: 8k
Packet Buffer: 1 Mbits

Interface

Configuration:
802.3af compliant PoE ports x8
auto MDI/MDI-x, auto negotiation
1000 Base-FX x2 (JetNet 3810Gf)
100Base-FX x2 (JetNet 3810f)
SFP with hot swappable
Cables:
10Base-T: 4-pair UTP/STP Cat 3,4,5, 100ohm (100m) for PoE
100Base-Tx: 4-pair UTP/STP Cat.5, 100ohm (100m) for PoE
LED per unit:
PoE (Green) x8
Fault alarm (Red) x1
Power on/ off (Green on/ off) x1
Gigabit fiber: Link/Act (Green on/ Blinking) x2
Gigabit fiber: Speed (Yellow Blinking) x2
LED on Ethernet port:
Link/ Activity (Green on/ blinking)
Full duplex/ Collision (Yellow on/ Blinking)
Relay Alarm: Dry Relay output with 1A@24V ability
PoE Technology: Alternative B
PoE Output Voltage: 48V / 65W

Power Requirements

Power Input: 12~24V
Power Consumption: 11W@DC 24V without PD loading
9.8W@DC 12V without PD loading

Mechanical

Construction:
Rugged Aluminum Alloy Chassis
Mounting: DIN-Rail mount
Dimension:
66(W) x 149(H) x 131.2(D) mm (with Din-rail clip)
Net weight: 1.05kg

Environment

Operating Temp: -13 ~ 140°F(-25 ~ 60°C), 5 to 95% RH
Storage Temp: -40 ~ 176°C(-40 ~ 80°C), 5 to 95% RH
EMI: FCC class A, CE/EN55022 Class A
EMC: EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11
Safety: UL 60950-1, CSA C22.2 No. 60950-1
Shock: IEC60068-2-27 (50g peak acceleration)
Vibration: IEC60068-2-6 (5g/5~500Hz/random operation)
MTBF: Greater than 200,000 hours @ 25°C
Warranty: 5 years

Ordering Information

JetNet 3810Gf Industrial 8 PoE + 2 GbE SFP Booster PoE Switch

JetNet 3810f Industrial 8 PoE + 2 FE SFP Booster PoE Switch

Includes:

- JetNet 3810Gf / 3810f
- Attached 4-pin power terminal block
- Quick installation guide

Optional Accessory

SFP transceiver

- 100Base-FX multi-mode SFP transceiver**
- 100Base-FX single-mode SFP transceiver**
- 100Base-FX BIDI/WDM single-mode SFP transceiver**
- Gigabit multi-mode SFP transceiver
- Gigabit single-mode SFP transceiver
- Gigabit BIDI/WDM single-mode SFP transceiver

** 100M fiber is optional and can be supported by different settings