JetNet 3810G

Industrial 8 PoE + 2 GbE Booster PoE Switch

Vehicle with 12~24V

- 8 10/100 TX PoE plus two 10/100/1000TX uplink ports
- 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 Ethernet ports for larger uplink bandwidth of surveillance
- Support QoS for optimizing video and VoIP stream
- Fault relay for active warning of port failure
- -25~60°C operating temperature

CE FC RoHS

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

Overview

JetNet 3810G is an Industrial PoE Boost Switch designed with 8 Fast Ethernet PoE ports and 2 Gigabit uplink ports to ensure high-bandwidth uplink connection for large-scale surveillance in transportation system networks. JetNet 3810G integrates Korenix patented vehicle PoE technology – the 12~24V to 48V power booster for making the deployment of standard PoE IP cameras feasible on buses, railcars, ships, etc. Moreover, the compact size with aluminum alloy metal enclosure allows JetNet 3810G to reliably operate under -25~60°C wide temperature range applications.

12~24V Power Booster to 48V PoE

JetNet 3810G, 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 JetNet 3810G can be powered by DC 12~24V to deliver 15.4W per port and 65W* per unit at DC 48V and 60°C to PoE-enabled devices such as IP cameras, PoE Wireless APs, PoE IP phones…etc. and therefore, be easily applied in vehicles or carriages.
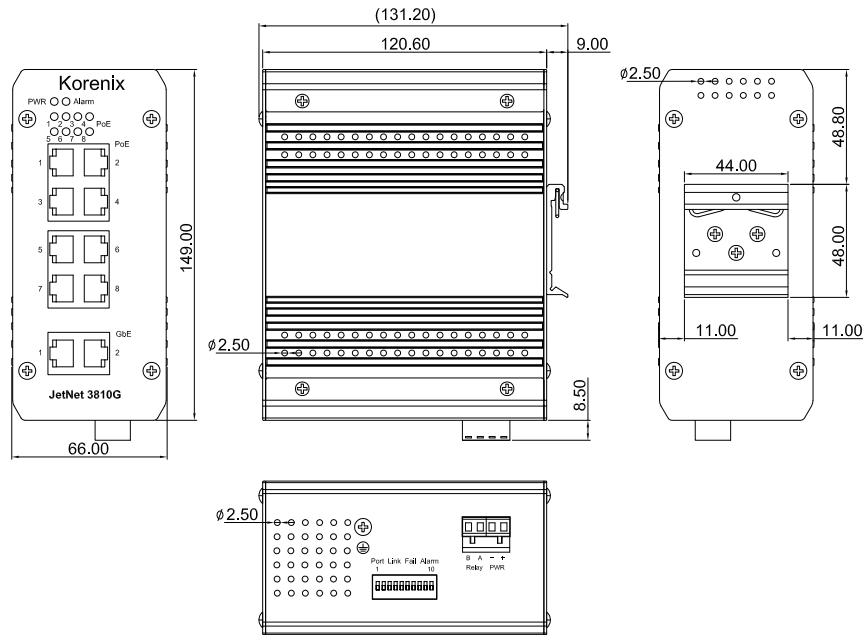
Gigabit Bandwidth and QoS supported

JetNet 3810G features eight PoE ports and two uplink gigabit Ethernet ports. Customers can connect up to 8 IP cameras and provide guaranteed large image uplink bandwidth connection. In addition, the JetNet 3810G supports QoS to ensure the high quality of video traffic transmission by simply adjusting the priority of data transfer.

Fault Relay function provided

JetNet 3810G 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.

*Specfications may change without prior notice

Dimensions

Hardware Specifications

Technology

Standard:
IEEE 802.3 10Base-T Ethernet
IEEE 802.3u 100Base-TX Fast Ethernet
IEEE 802.3ab 1000Base-T
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 x 8
10/100/1000Base-TX x 2
Auto MDI/MDI-X, Auto Negotiation

Cables:
10 Base-T: 2-pair UTP/STP Cat. 3,4,5 cable (100m)
100 Base-Tx: 2-pair UTP/STP Cat. 5 cable (100m)
1000 Base-T: 4-pair UTP/STP Cat. 5 cable (100m)
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

LED on Ethernet port:
Link/ Activity (Green on/ blinking)
Gigabit copper: Link/Act (Green on/ Blinking)
Full duplex/ Collision (Yellow on/ Blinking)
Gigabit copper: Speed (Yellow Blinking)
Relay Alarm: Dry Relay output with 1A@24V ability
POE technology: Alternative B

Power Requirements

Power: 12~24V
Power Consumption: 30W without PoE, 95W with PoE

A Beijer Electronics Group Company

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
Shock: IEC60068-2-27 (50g peak acceleration)
Vibration: IEC60068-2-6 (5g/5~500Hz/random operation)
MTBF: at least 200,000 hours @ 25°C
Warranty: 5 years

*Pending

Ordering Information

JetNet 3810G Industrial 8 PoE+2GbE Booster PoE Switch

Includes:

- JetNet 3810G
- Attached 4-pin power terminal block
- Quick installation guide
- Documentation and software CD-ROM

Industrial
Intelligent
NMS

Rackmount
PoE Plus
Switch

Industrial
PoE Plus
Switch

**Industrial
12-24V
PoE Switch**

Industrial
PoE Switch

Rackmount
L3/L2 Switch

Gigabit
Managed
Switch

Managed
Ethernet
Switch

Entry-level
Switch

IP67/68
Ethernet
Switch

Wireless
Outdoor AP

Embedded
PoE/Router
Computer
(LINUX)

Industrial
Communication
Computer
(WIN/LINUX)

Ethernet/PoE/
Serial Board

Ethernet
I/O Server

Media
Converter

Serial Device
Server

SFP Module

Din Rail
Power Supply