

JetNet 3810G

Industrial 8-port PoE + 2-port GbE Switch, with DC12V/24V to DC48V Power boost



CE FC  RoHS



- Eight 10/100 TX Power over Ethernet ports 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 100W 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
- Rugged aluminum case with IP-31 protection
- -25~70°C operating temperature

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 12V to 48V power booster for making the deployment of standard PoE IP cameras feasible on buses, railcars, ships, etc. Moreover, the compact size with IP-31 grade aluminum alloy metal enclosure allows JetNet 3810G to reliably operate under -25~70°C wide temperature range applications.

12~24V Power Booster to 48V PoE

JetNet 3810G, designed with Korenix patented DC 12V 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 100W 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.

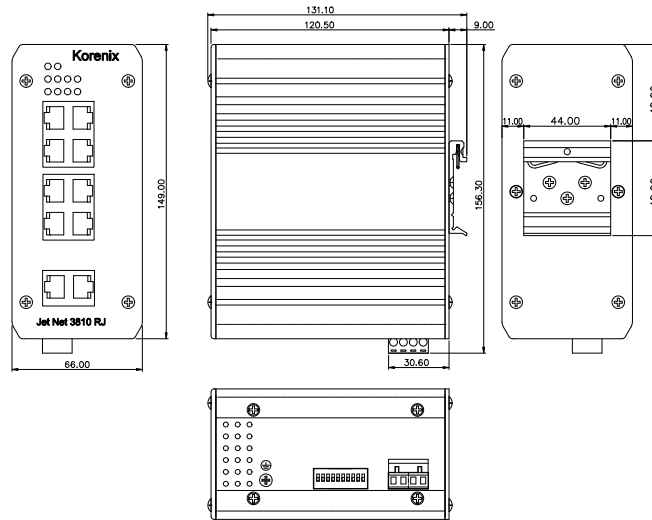
Gigabit bandwidth and QoS supported

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.

Dimensions (Unit = mm)



Industrial PoE Switch

IP67/68
Ethernet Switch

Rackmount
Managed
Switch

Gigabit Switch

Redundant
Switch

Entry-Level
Switch

Networking
Computer

Communication
Computer

Ethernet
I/O Server

Serial Device
Server

Media
Converter

Multiport
Serial Card

SFP Module

Din Rail
Power Supply

Hardware Specifications

Technology

Standard:

IEEE 802.3 10Base-T Ethernet
IEEE 802.3u 100Base-T 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, 1,488,100 for Gigabit Ethernet

Transfer packet size: 64 bytes to 1522 bytes (with VLAN Tag)

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

100 Base-TX: 2/4-pair UTP/STP Cat. 5 cable (100m)

1000 Base-T: 4-pair UTP/STP Cat. 5 cable (100m)

Diagnostic LED: Power (Green) x1

Fault alarm (Red) x1

PoE (Orange) x8

Link/Activity(Green) x8

Full duplex/Collision (Orange) x8

Gigabit Copper: Link/Act (Green) x2

Gigabit Copper: Speed (Orange) x2

Relay Alarm: Dry Relay output with 1A@24V ability

POE technology: Alternative B

Power Requirements

Power: 12~40V with reversed protection

Isolated power input

Power Consumption: 9 Watt without PoE loading

166 Watt with full PoE loading"

Mechanical

Construction:

Rugged Aluminum Alloy Chassis, IP31 protection

Mounting: DIN-Rail mount

Dimension: 66(W) x 149(H) x 120.5(D) mm

Net weight: 700g

Environment

Operating Temp: -13 ~ 158°F(-25 ~ 70°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)

Railway*: EN50155

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+2G-port Unmanaged PoE Switch, DC12 boost 48V PoE

Includes:

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