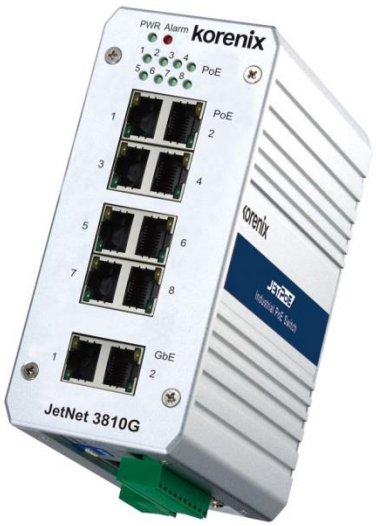
INDUSTRIAL POWER OVER ETHERNET SWITCH

Industrial 8 PoE + 2 GbE Booster PoE Switch

JetNet 3810G V2



- 8 10/100 TX PoE plus two 10/100/1000TX uplink ports
- Vehicle IP Surveillance with 8 IEEE802.3af PSE
- 12/24V Vehicle Power Input, 48V PoE Output
- 2 Gigabit Ports for Video Server/IPC connection
- Real Time Port Link-Fault Alarm Output
- -40~70°C operating temperature

Heavy Industry

8 24 32
Vehicle 8~32V

+70
-40
Wide Temp

PoE 80W

2 GbE Uplink

Overview

JetNet 3810G V2 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 V2 integrates Korenix patented vehicle PoE technology – the 8~32V DC input to 48V power booster to make 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 V2 to operate reliably within -40~70°C wide temperature range.

8~32V Power Booster to 48V PoE

JetNet 3810G V2, designed with Korenix patented DC 8~32V 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 8~32V to deliver 15.4W per port and 80W budget per unit at DC 48V and 70°C to enable PoE devices such as IP cameras, PoE Wireless APs, PoE IP phones…etc. Therefore, the Switch can be easily applied in vehicles or carriages.

Gigabit Bandwidth

JetNet 3810G V2 features 8 PoE ports and 2 uplink gigabit Ethernet ports. Customers can connect up to 8 IP cameras and provide guaranteed high bandwidth connection for large image file transmission.

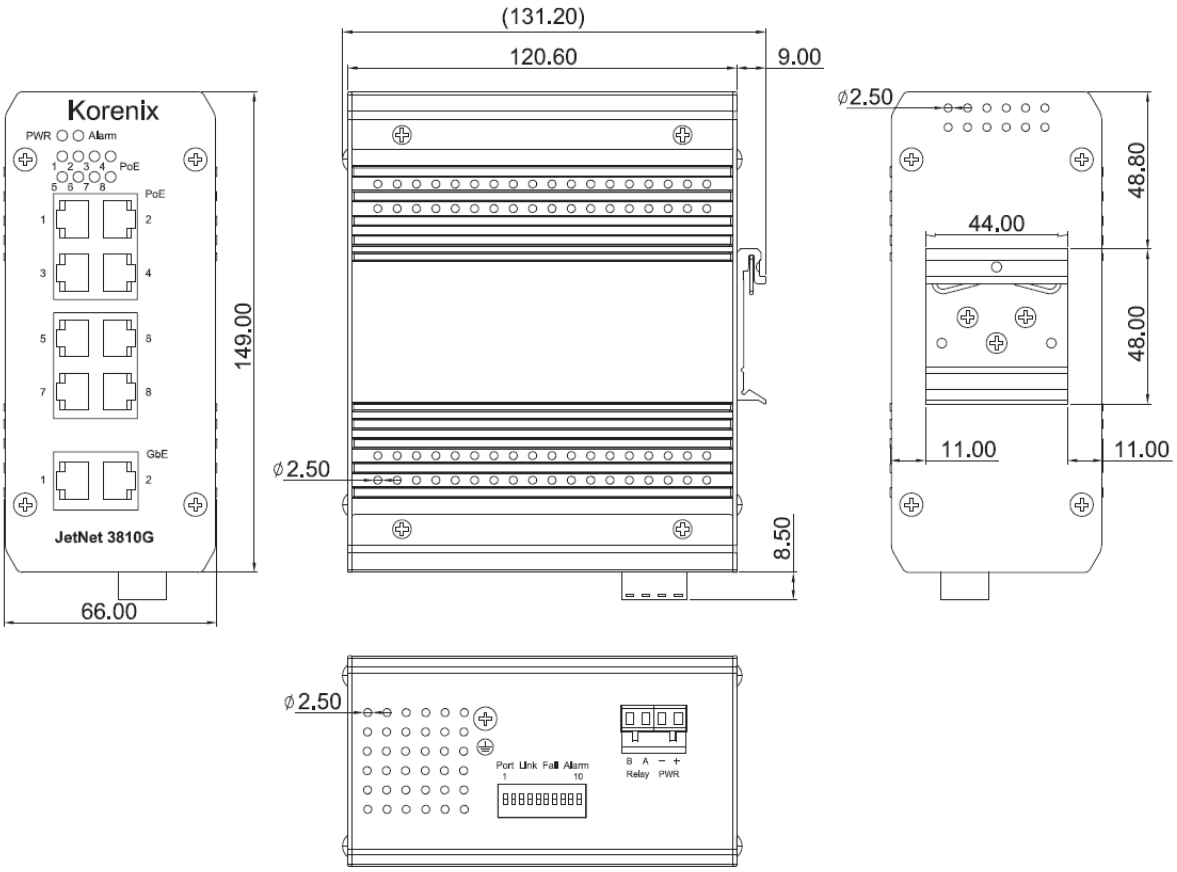
Fault Relay function provided

JetNet 3810G V2 provides fault relay to automatically warn users if any abnormal situation occurs. As a result, users can quickly handle the emergency and minimize the failover time.

Specification

Technology	
Standard	IEEE 802.3u 100Base-TX IEEE 802.3ab 1000Base-T IEEE 802.3x Flow Control and Back-pressure IIEEE 802.3af Power over Ethernet (PoE)
Performance	
Switch Technology	Store and Forward with 32Gbps Switch Fabric
System Throughput	8.3Mega packets per second, 64Bytes packet length
Transfer packet size	64Bytes ~1518Bytes
MAC Address	8K MAC address table
Packet Buffer	1Mega bits shared packet buffer
Port Event Output	Ethernet port event alarm. Configure by DIP Switch.
DC Power Booster	Wide Range power booster: 8~32V input, 48V PoE output
PoE Power Budget	Input 8VDC, 70°C/ 60W 9VDC, 70°C/ 80W 12VDC, 70°C/ 80W 24VDC, 70°C/ 80W 32VDC, 70°C/ 80W
Interface	
Ethernet Port	Fast Ethernet: 8 RJ-45 with IEEE 802.3af PoE/PSE, Auto MDI/MDI-X Gigabit Ethernet: 2 RJ-45, Auto MDI/MDI-X
Power & Relay Port	4-Pin Removable Block Connector for Power input, Dry Relay output
Cable	100Base-TX: 4-Pairs UTP/STP Cable, CAT-5e, CAT-6, 100Meters 1000Base-T: 4-Pairs UTP/STP Cable, CAT-5e, CAT-6, 100Meters
Power over Ethernet	IEEE 802.3af Power over Ethernet , 15W/port System PoE Output (Max.): 80W/70°C with 12V or 24V DC input PoE Output Mode: Alternative-B (RJ-45 Conductor: 4,5,7,8)
Event Relay Output	Dry Relay Output with DC24V, 1A current capability
LED	System Power: DC Booster Powering (Green on) DO: Alarm Dry Relay Close (Red on) Fast Ethernet: Link/Active (Green on/Green Blinking), Full Duplex/Collision (Amber on/Amber Blinking) Gigabit Ethernet: Link/Active (Green on/Green Blinking), 1000Mbps Link(Amber on),100Mbps Link (Amber off and Green on)
Power Requirement	
System Power	Input Voltage: DC12V, DC24V with polarity reverse protection Acceptable voltage variation: DC 8~32V System Power Consumption:15W/ without PoE Loading
Mechanical	
Enclosure Material	Aluminum Alloy with Steel
Installation	DIN Rail Installation
Enclosure Protection	Ingress Protection grade 30 (IP30)
Dimensions	149mm (H) x 66 mm (W) x 131.2 mm (D)
Environments	
Operating Temperature	-40°C~70°C, 0~90% Humidity, Non-Condensing, 80Watts PoE Power Consumption
Storage Temperature	-40°C~80°C, 0~90% Humidity, Non-Condensing
Hi-Pot	AC 1KV - Power to Chassis
Approvals	
EMC	Vehicle EMC: E-Mark EMI:IEC/EN61000-6-4, FCC Class A EMS:IEC/EN61000-6-2 IEC/EN61000-4-2,IEC/EN61000-4-4, IEC/EN61000-4-5, IEC/EN61000-4-6, IEC/EN61000-4-8
Safety	UL/IEC60950-1

Dimension (Unit = mm)



Ordering Information

- JeNet 3810G V2 Industrial 8-port PoE + 2-port GbE Switch, with DC 8V~32V to DC48V Power boost, HW V2.0
  Includes:
  - JetNet 3810G V2
  - Attached 4-pin terminal block
  - Quick Installation Guide x 1