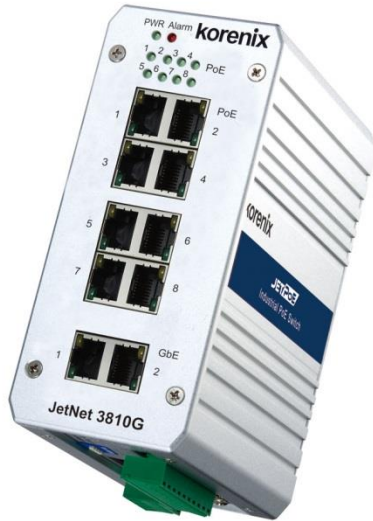


## Industrial 8 PoE + 2 GbE Booster PoE Switch

# 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



## 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<br>IEEE 802.3ab 1000Base-T<br>IEEE 802.3x Flow Control and Back-pressure<br>IEEE 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<br>9VDC, 70°C/ 80W<br>12VDC, 70°C/ 80W<br>24VDC, 70°C/ 80W<br>32VDC, 70°C/ 80W |

### Interface

|                     |                                                                                                                                                                                                                                                                                                                        |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet Port       | Fast Ethernet: 8 RJ-45 with IEEE 802.3af PoE/PSE, Auto MDI/MDI-X<br>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<br>1000Base-T: 4-Pairs UTP/STP Cable, CAT-5e, CAT-6, 100Meters                                                                                                                                                                                             |
| Power over Ethernet | IEEE 802.3af Power over Ethernet , 15W/port<br>System PoE Output (Max.): 80W/70°C with 12V or 24V DC input<br>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)<br>DO: Alarm Dry Relay Close ( Red on)<br>Fast Ethernet: Link/Active (Green on/Green Blinking), Full Duplex/Collision (Amber on/Amber Blinking)<br>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<br>Acceptable voltage variation: DC 8~32V<br>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) |

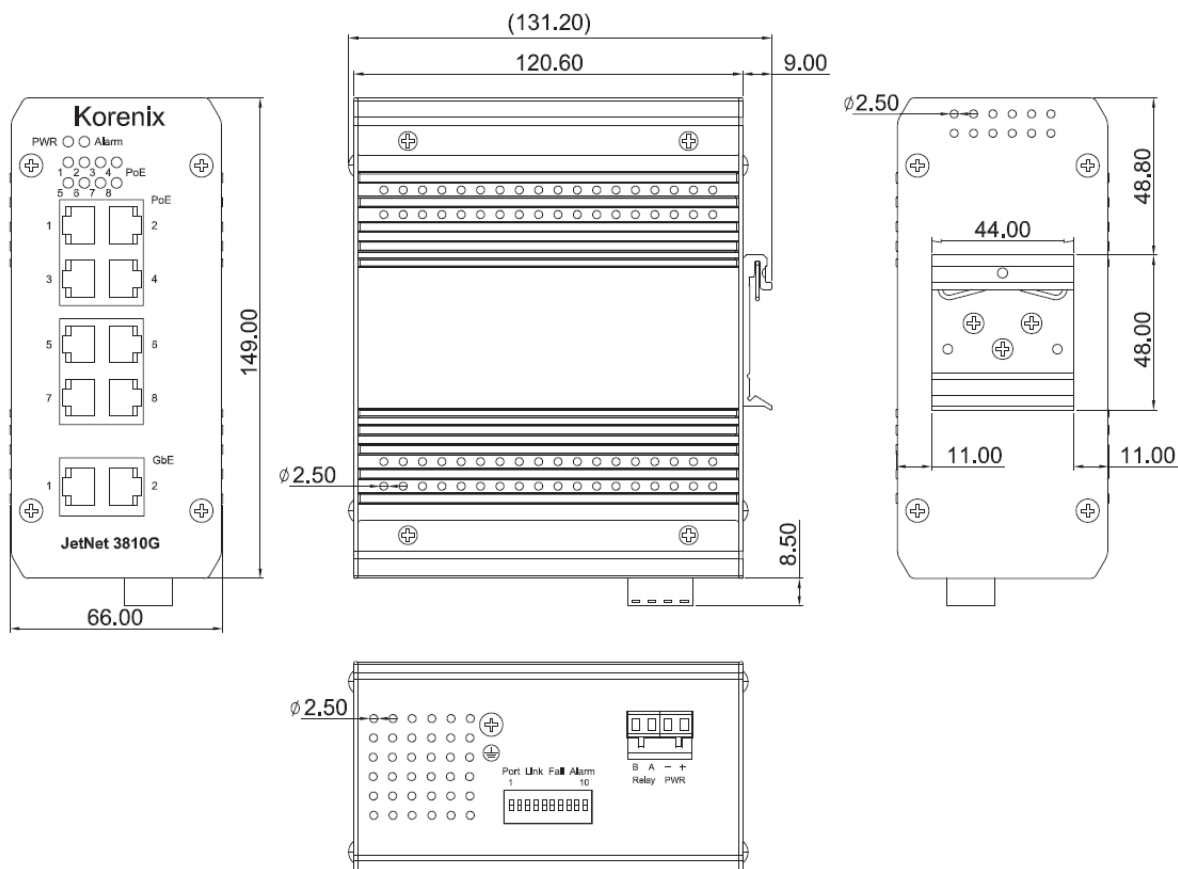
### Environments

|                       |                                                                           |
|-----------------------|---------------------------------------------------------------------------|
| 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<br>EMI:IEC/EN61000-6-4, FCC Class A<br>EMS:IEC/EN61000-6-2<br>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