

# JetNet 3806G

## Industrial 4 PoE + 2 GbE Booster PoE Switch

Vehicle with 12~24V



CE FC RoHS

2 Giga Uplink 12~24VDC Booster 60W\*

QoS -25~60°C

- Four 10/100 TX PoE plus two 10/100/1000TX uplink ports
- Vehicle PoE: DC 12V~24V input, deliver 4 port PoE @48V
- 802.3af compliant PoE: Total power budget is 60W\* 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

- 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
- 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

## Overview

JetNet 3806G is an Industrial PoE Boost Switch designed with 4 Fast Ethernet PoE ports and 2 Gigabit uplink ports to ensure high-bandwidth uplink connection for large-scale surveillance in transportation system networks. JetNet 3806G integrates Korenix patented vehicle PoE technology – the 12V~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 3806G to reliably operate under -25~60°C wide temperature range applications.

### 12~24V Power Booster to 48V PoE

JetNet 3806G, designed with Korenix patented DC -12V~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 3806G can be powered by

DC 12~24V to deliver 15.4W per port and 60W\* 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

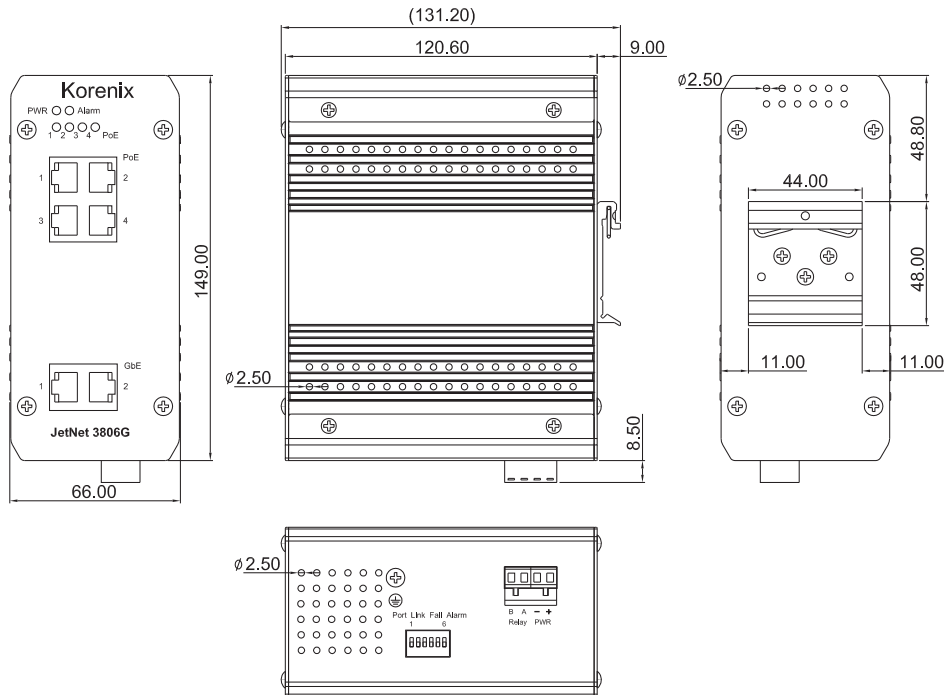
JetNet 3806G features four PoE ports and two uplink gigabit Ethernet ports. Customers can connect up to 4 IP cameras and provide guaranteed large image uplink bandwidth connection. In addition, the JetNet 3806G supports QoS to ensure the high quality of video traffic transmission by simply adjusting the priority of data transfer.

### Fault Relay function provided

JetNet 3806G 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 (Unit = mm)



## 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, 1,488,100 pps for Gigabit Ethernet

**Transfer packet size:** IEEE 64 bytes to 1522 bytes (with untagged and tagged frame)

**MAC Address:** 8k

**Packet Buffer:** 1 Mbits

### Interface

**Configuration:** 802.3af compliant PoE ports x 4  
 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

### Diagnostic LED:

Power (Green) x1  
 Fault alarm (Red) x1  
 PoE (Green) x4

### 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

**PoE Output Voltage:** 48V / 60W

### Power Requirements

**Power Input:** 12~24V

**Power Consumption:** 8.3W@DC 24V without PD loading  
 7.2W@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:** 1.05 kg

**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**

\* Pending

**JetNet 3806G Industrial 4 PoE+2GbE Booster PoE Switch**

Includes:

- JetNet 3806G
- Attached 4-pin power terminal block x1
- Quick installation guide

Industrial Intelligent NMS

Rackmount PoE Plus Switch

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