JETPOE

JetNet 3806G

Industrial 4 PoE + 2 GbE Booster PoE Switch

Vehicle with 12~24V

JetNet 3806G

CE FC RoHS

2 Giga Uplink	12~24VDC Booster	60W*
QoS	-25~60℃	

- 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℃ operating temperature

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℃ 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℃ to PoE-enabled devices such as IP cameras, PoE Wireless APs, PoE IP phones…etc. and therefore, be easily applied in vehicles or carriages.
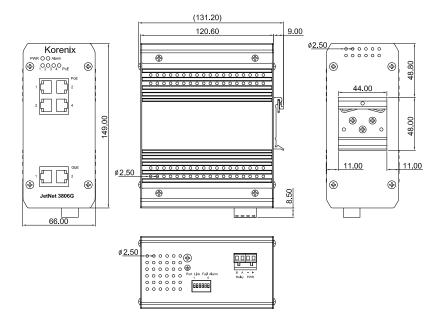
Gigabit bandwidth and QoS supported

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.

*Specfications 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

Power Requirements
Power: 12~24V
Power Consumption: 25W without PoE, 80W with PoE

JET PoE

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
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
*Pending

Ordering Information

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

Includes:

- JetNet 3806G
- Attached 4-pin power terminal block x1
- Quick installation guide
- Documentation and software CD-ROM