

JetNet 3005G

Industrial 5-port Full Gigabit Ethernet Switch



- 5 Gigabit Ethernet Ports with Auto MDI/MDI-X
- 9.6K bytes Jumbo frame for large file transmission
- IEEE 802.1p Quality of Service (QoS) for packet forwarding precedence
- Broadcast storm packet filtering
- Dual DC 12~48V power inputs
- Port and power event alarm
- IP31 rugged aluminum case
- Operating temperature -10~70°C



Overview

JetNet 3005G, the 5-port full Gigabit Industrial Ethernet Switch, ensures high switching performance and easy installation which is an ideal solution for the most bandwidth demanding applications such as IP surveillance.

Along with its high switching performance, JetNet 3005G supports QoS, broadcast storm filtering to ensure quality traffic transmission. JetNet 3005G further supports up to 9.6K bytes Jumbo frame for efficient data transmission.

JetNet 3005G is designed for operating reliably under harsh environments. JetNet 3005G supports dual power inputs and one alarm relay to indicate fault conditions when any link or power failure happens as a result, increasing the system reliability. Its IP31 rugged aluminum housing provides great injection protection and heat dispersion capability for the need of -10~70°C wide operating temperature.

Plug-&-Play and Full Gigabit Switching

JetNet 3005G requires no user setup and starts operating as soon as it is turned on. Its 5 Full Gigabit ports ensure high-speed data transmission.

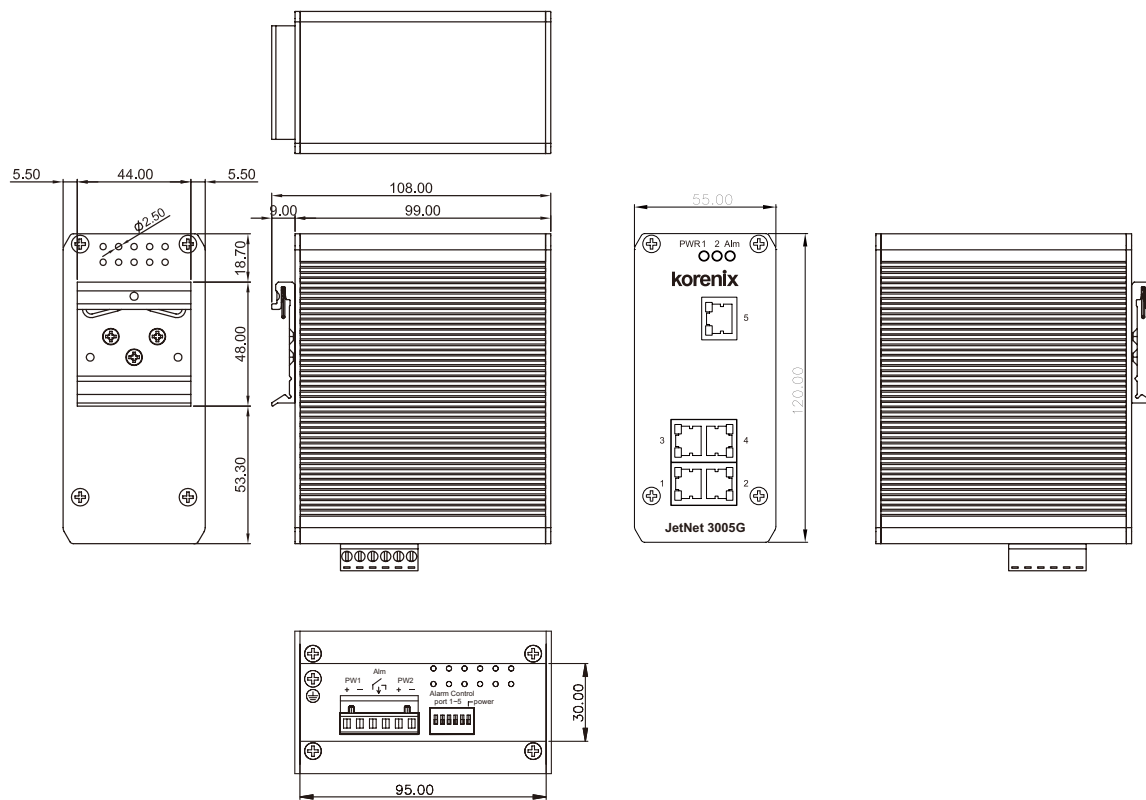
With JetNet 3005G, users benefit from its easy and high switch performance.

9.6K-Byte Jumbo Frame

The typical Ethernet frame ranges from 64 to 1518 bytes. This is sufficient for general usage. However, when users need to transmit large files, the files may be divided into many small

size packets. Comparing to small packets, 9.6K bytes Jumbo frame technology provides greater network transmission efficiency.

Dimension (Unit = mm)



Specification

Technology

Standard:

IEEE802.3 10Base-T
IEEE802.3u 100Base-TX
IEEE802.3ab 1000Base-T
IEEE802.1p Class of Service
IEEE802.1Q Quality of Service
IEEE802.3x Flow Control

System Performance

Aggregate System Throughput: 1.49Mpps

MAC Address: 4K MAC

Packet Buffer: 192Kbits

Transfer Packet Size:

14,880pps for Ethernet 10Base-T

148,800pps for Fast Ethernet

1488,100pps for Gigabit Ethernet

Packet size from 64~1518 Bytes

Jumbo Frame: 9,720 Bytes (gigabit only)

Broadcast storm control: Default enabled.

Traffic threshold:

128Mbps@1000Mbps;

12.8Mbps@100Mbps;

1.28Mbps@10Mbps

Quality of Service: Default Enabled. Compliance with IEEE802.1p class of service with Tag Based Priority. Each port support 4 priority queues with 8(Higher):4(High):2(Low):1(Lowest) scheduling. The Tag Priority ID as following: Higher (6,7), High (4,5), Low (0,3), Lowest (1,2)

Event alarm relay: Provides port and power event alarm; Enabled by 6-pin Dipswitch

Interface

Number of Ports:

5 x 10/100/1000 Base-T(X) with F/H Duplex, Auto MDI/MDI-X, Auto-Negotiation function

Connectors:

10/100/1000 Base-T(X): RJ-45

Power: 6-pin removable terminal block

Alarm relay included in 6-pin removable terminal block:

Terminal block connector with 1A @DC24V carry ability

Cables:

Cat.3, Cat.4, Cat.5 or Cat.5e unshielded twisted pair or shielded twisted pair cable. The Link distance is 100 meters in maximum

Diagnostic LED: Power (Green) x2

Port: Link (Green on) / Activity (Green blink)

Port: 1000Mbps (Yellow on) / 100 or 10Mbps (Yellow off)

Alarm: Port /Power Event (Red on)

Power Requirements

System Power: 2 Power inputs with redundancy and polarity reverse protection

Voltage: DC 24V (12~48V)

Power Consumption: 8 Watts @ 48VDC

Current: 0.2A @12VDC

Mechanical

Installation: DIN-Rail mount

Case: IP31 grade aluminum metal case

Dimension:

120mm (H) x 55mm (W) x 108mm (D) (without DIN rail clip)

Weight:

0.775kg with package

0.525kg without package

Environmental

Operating Temperature: -10~70°C

Operating Humidity: 0% ~ 95%, (non-condensing)

Storage Temperature: -40 ~ 85°C

Storage Humidity: 0% ~ 95%, (non-condensing)

Regulatory Approvals

EMI: FCC class A, CE/EN55022 class A

EMS: IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8

Shock: IEC60068-2-27

Vibration: IEC60068-2-6

Free Fall: IEC60068-2-32

Warranty: 5 years

Ordering Information

Art.-No. 127573 **JeNet 3005G Industrial 5-port Full Gigabit Ethernet Switch**

Includes:

- JetNet 3005G
- Quick Installation Guide