

JetNet 3008f

Industrial 8-port Fast Ethernet Fiber Switch



CE FC  RoHS

- 6 10/100TX Ports with Auto MDI/MDI-X
- 2 100FX, Multi-mode/Single-mode
- Compact size with full power redundancy
- 2.0Gbps Switch Fabric
- QoS for packet forwarding precedence
- Broadcast storm packet filtering
- Port and power event alarm
- IP-31 aluminum alloy case
- DIN-Rail mount
- Dual power input DC12~48V
- AC 1.5KV Hi-pot isolation protection

Industrial
PoE Switch

IP67/68
Ethernet Switch

Rackmount
Managed
Switch

Gigabit Switch

Redundant
Switch

Entry-Level
Switch

Networking
Computer

Communication
Computer

Ethernet
I/O Server

Serial Device
Server

Media
Converter

Multiport
Serial Card

SFP Module

Din Rail
Power Supply

Overview

The JetNet 3008f is a new generation of the 8-port compact Fast Ethernet switch equipped with 2.0Gbps Packet Switch engine as particular packet forwarding and filtering mechanism to fulfill industrial communications on the filed sites. It provides the graceful packet forwarding ability to handle 64~1552 packet size into 2 priority queues which comply with quality of service for the best data forwarding performance.

In addition, for the best network performance both of broadcast storm filtering and flow control functions can ensure your data traffic deliver to destination without traffic congestion. To avoid interferences as well as to extend the network coverage, JetNet 3008f

implements 2 100Mbps fiber ports with multi-mode 2KM or single-mode 30KM transceiver in order to achieve stable and long-distant transmissions.

To survive under hazard environments, it is equipped with 2 redundant power inputs, as the wide range input avoiding any power interruption and also operating between -25~70°C temperature range. For the purpose of easy maintenance, JetNet 3008f has one alarm-relay for port link events and power events via alarm to assist engineers with notifications on the filed sites. With the JetNet 3008f, users enjoy the superiority and the reliable performance on the filed site applications.

Redundant Power Inputs & True Reliability

The JetNet 3008f has dual DC24V inputs, and can also operate on 12V~48V. Dual power inputs and built-in reverse power polarity protection are designed as the redundant power system to ensure power

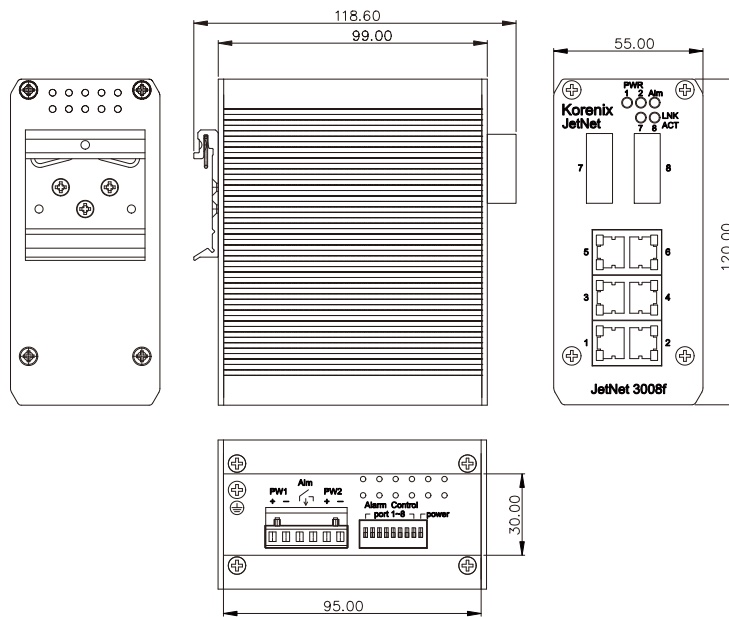
continuity. With the 1.5KV Hi-Pot isolation protection, CE/FCC regulatory approvals, and 5-year global warranty, the JetNet is the reliable choice for hazardous applications.

Plug-and-Play Switch & High-Speed Transmission

JetNet 3008f require no user setup and immediately start operating as soon as you power them up. Excellent data transmission performance is

provided for you. No traffic will be delayed with the transmission rate up to 2.0Gbps.

Dimensions (Unit –mm)



Specification

Technology

Standard:

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

Switch Technology:

Store and forward technology with 2.0Gbps Switch Fabric

System Performance

Aggregate System Throughput: 1.49Mpps

MAC Address: 2K MAC

Packet Buffer: 448Kbits

Transfer Packet Size:

148,80pps for Ethernet 10Base-T
 148810pps for Fast Ethernet
 Packet size from 64~1552 Bytes (Long Packet forwarding ability)

Broadcast storm control: Default enabled.

Broadcast Traffic threshold: 200 packets/ Sec.@100Mbps;
 20 packets/Sec. @ 10Mbps

Class of Service: Provides 2 packet forwarding Queues:
 High Queue (4~7), Low Queue (0~3)

Quality of Service: Default Enabled. Supports VLAN tag priority and IPv4 packet precedence

Event alarm relay: Provides port and power event alarm;
 Enabled by 9-PIN Dipswitch

Interface

Number of Ports:

6 x 10/100 Base-TX with Auto MDI/MDI-X,
 Auto-Negotiation function
 2 100Mbps Fiber in multi-mode (JetNet 3008f-m) or
 single-mode (JetNet 3008f-s)

Connectors: 10/100 Base-TX: RJ-45

100Mbps Fiber: SC

Power: Terminal Block

Alarm relay: 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.

JetNet 3008f-m: multi-mode optical fiber, 50~62.5/125um, 2KM

JetNet 3008f-s: single-mode optical fiber, 8~10/125um, 30KM

Fiber Transceiver:

JetNet 3008f-m

Link Distance: 2KM (Max.)

Wave-length: 1310nm

Min Tx Power:-20dBm

Max Tx Power:-14dBm

Min Rx Sensitivity:0dBm

Max Rx Sensitivity:-31dBm

Link budget:11dBm

JetNet 3008f-s

Link Distance: 30KM (Max.)

Wave-length:1310nm

Min Tx Power:-15dBm

Max Tx Power:-8dBm

Min Rx Sensitivity:0dBm

Max Rx Sensitivity:-34dBm

Link budget:19dBm

Diagnostic LED:

Per system: Power (Green) x2

10/100TX port: 10/100TX port: Link (Green on) / Activity
 (Green blinking)

100Mbps Link (Yellow on)/ 10Mbps Link (Yellow off)

100Mbps Fiber: Link (Green on)/Activity (Green blinking)

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: 12 Watts @ DC 24V

Mechanical

Installation: DIN-Rail mount

Case: IP-31 grade aluminum metal case

Dimension:

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

Weight:

0.97kg with package

0.54kg without package

Environmental

Operating Temperature: -25 ~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: 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

Vibration: IEC60068-2-32

Free Fall: IEC60068-2-32

MTBF: 400,000hours *MIL-HDBK-217F GB(MILITARY
 HANDBOOK) standard

Warranty: 5 years

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Ordering Information

JetNet 3008f-m Industrial 8-port Fast Ethernet Fiber Switch, 2 SC/Multi-mode, 2KM

JetNet 3008f-s Industrial 8-port Fast Ethernet Fiber Switch, 2 SC/Single-mode, 30KM

Includes:

- JetNet 3008f-m / JetNet 3008f-s
- Quick Installation Guide
- CD User manual