

# 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

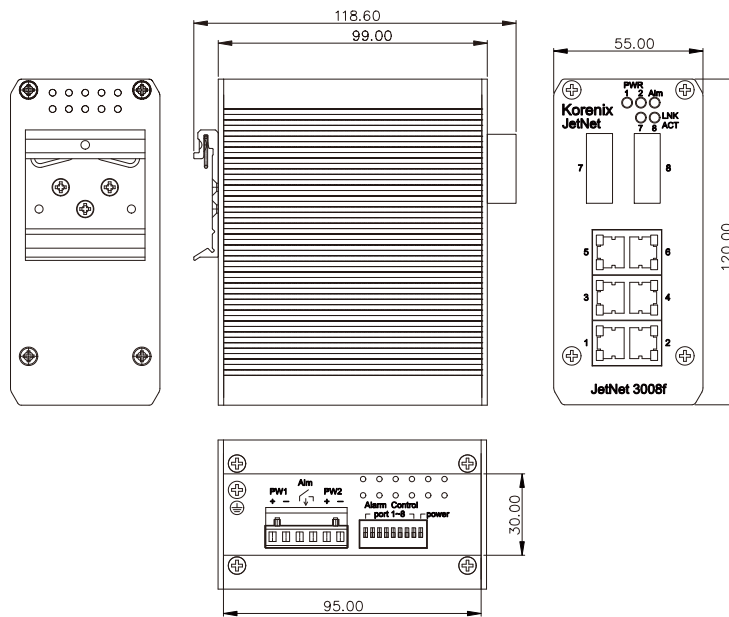
continuity. With the 1.5KV Hi-Pot isolation protection, CE/FCC regulatory approvals, and 5-year global warranty, the JetNet is the reliable choice for hazardous applications.

## 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