

## JetNet 4005f / 4008f

### Industrial 5 / 8-port Web-Managed Fast Ethernet Fiber Switch



- JetNet 4005f : 4-port 10/100 TX and 1 multi-mode or single-mode fiber port Web-Managed Fast Ethernet Switch
- JetNet 4008f : 6-port 10/100 TX and 2 multi-mode or single-mode fiber ports Web-Managed Fast Ethernet Switch
- 3.2Gbps Switch Fabric with excellent data exchange performance
- Super Ring technology, back up system recovery time less than 20ms and up to 250 sets
- IGMP snooping v1/v2, VLAN, QoS, CPU Rate control for network management
- Aluminum case with IP-31 grade protection
- -10~70°C operating temperature for hazardous environment application

#### Overview

JetNet 4005f/4008f is a Industrial Web-Managed Fast Ethernet Rail Switch with super software features, which are port control, port status, VLAN, Port Mirror, IGMP snooping with query, Quality of Service, Simple Network Time Protocol (SNTP), DHCP Client, STP/ RSTP and Super Ring.

One of the main topics in industrial automation application is to ensure the system running with nonstop transmission. To meet this requirement, JetNet 4005f/4008f provide Super Ring mechanism which is within 20ms recovery time and faster than

RSTP.

JetNet 4005f/4008f has built in relay output for port and power event. The feature of fault relay alarm aiming to inform you whenever there is any port link down. Just move up the DIP switch, the fault relay alarm will be functioning! To be operated in a harsh operating environment, JetNet 4005f/4008f are equipped with dual power inputs with redundancy and rigid aluminum case with excellent heat radiation for -10 ~ 70°C environment operating temperature.

#### Web Management for Easy Configuration & Non-stop Super Ring

Versatile and User-friendly configuration interface, including VLAN, QoS, IGMP, event warning, etc, not only to make your job easier, but also save your time and money.

Super Ring is Korenix Ring redundancy technology.

The recovery time is <20 ms, the 1st Ring Port of the R.M. is the primary path. The 2nd Ring Port of the R.M. is the block path. Once the primary path is failed, the 2nd path will be recovered within 20ms which gives you fault-tolerant connection.

## Fiber Optic Port Options & High-Speed Transmission

Single-mode and Multi-mode fiber optic ports meet your needs for long distance transmission up to 30KM.

Excellent data transmission performance is provided for you. No works will be delayed with the transmission rate up to 3.2Gbps.

## Fault Relay Output & Redundant Power Inputs

One relay output is an important feature to let you know when there is any event of port link down. Just move up the DIP switch, the fault relay alarm will be functioning!

Best with two DC24V input, and also compatible with

range from 12V~48V. Dual power input and built-in reverse power polarity protection are designed as the redundant power system to ensure your power continuity.

## True Reliability & Easy Installation

With the 1.2KV Hi-Pot isolation protection, CE/FCC regulatory approvals, and 5-year global warranty, JetNet 4005f/4008f series are your reliable choice for

hazardous applications.

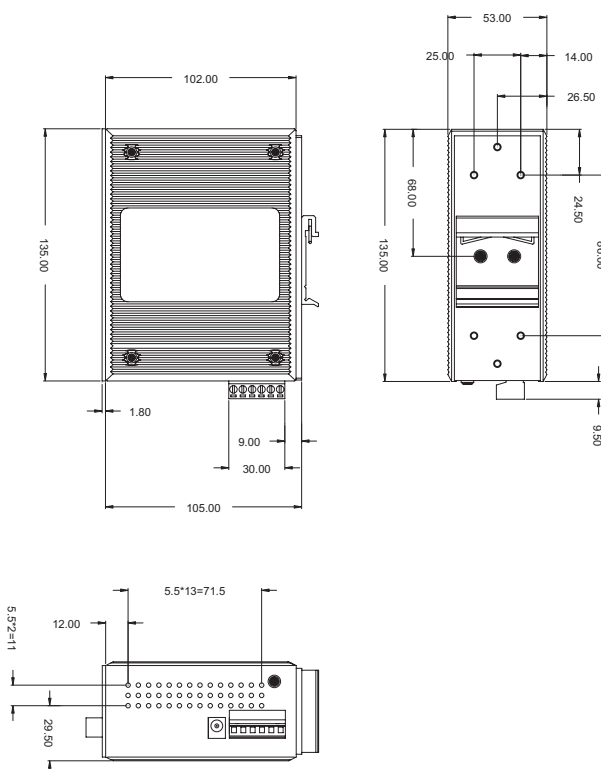
JetNet 4005f/4008f series can be easily wall mounted and be mounted directly on DIN rail.

## Brilliant Idea for Hazardous Environment Application

The award winning IP31 rigid aluminum flat casing and wide operation temperature range ensure reliable operation for harsh environment. Extended

operating temperature range is available for project-based request.

## Dimensions (Unit –mm)



## Specification

### Technology

#### Standard:

IEEE802.3 10Base-T  
 IEEE802.3u 100Base-TX/100Base-FX  
 IEEE802.3x flow control  
 IEEE802.1d Spanning Tree  
 IEEE802.1w Rapid Spanning Tree (RSTP)  
 IEEE 802.1Q VLAN  
 IEEE802.1p Class of Service

### Performance

#### Switch Technology:

Store and Forward Technology with 3.2Gbps Switch Fabric.

**System Throughput:** 14,880pps for Ethernet and 148,800pps for Fast Ethernet and transfer packet size from 64 to 1522Bytes

**MAC Address:** 2K MAC

**Packet Buffer:** 1Mbits

### Management

**Configuration:** Web browser. TFTP update, configuration backup/restore, DHCP client, warm reboot, reset to default, Admin password, Port Speed/Duplex control, status and statistics,

**VLAN:** Port Based VLAN, Tag VLAN. VLAN ID 1 to 4094. 64 VLAN groups in maximum, Management VLAN

**Quality of Service:** Meets IEEE802.1p class of service, per port 4 priority queues, Layer 3 IPv4 TOS/DiffServ

**Rate Control:** Support ingress and egress packet filtering by different types of packet format combination.

**Packet filter:** 4 types of packet filter rule, All packets, Broadcast/ multicast/ unknown unicast packet, broadcast/ multicast packet or broadcast packet only

**IGMP Snooping:** Compliance with IGMP v1/v2 and IGMP Query mode. Maximum IGMP groups up to 256

**Timer:** Support Simple Network Time Protocol (SNTP) to synchronize time from internet.

**Firmware upgrade:** TFTP firmware upgrade.

**Port Mirror:** TX/RX only, both of TX and RX packets

### Network Redundancy

**Super Ring:** Recovery time less than 20ms and compatible with JetNet 3500, JetNet 4500 and JetNet 5010G series.

**Spanning Tree:** IEEE802.1D Spanning Tree and IEEE802.1w Rapid Spanning Tree

### Interface

#### Number of Ports:

JetNet 4005f:

4 x 10/100Base-TX with Auto MDI/MDI-X, Auto-Negotiation  
 1 x 100Base-FX/SC connector for multi-mode /single-mode  
 JetNet 4008f:

6 x 10/100Base-TX with Auto MDI/MDI-X, Auto-Negotiation  
 2 x 100Base-FX/SC connector for multi-mode /single-mode

#### Connectors:

10/100TX: RJ-45

100Base-FX: SC/Multi-mode, SC/Single-mode

Terminal Block: 6-pin for 2 x power input and 1 relay output  
 DC power Jack x 1

#### Cables:

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

Multi-mode Fiber (JetNet 4005f-m/4008f-m):

50/125um, 62.5/125um, available link distance to 2KM

Single-mode Fiber (JetNet 4005f-s/4008f-s):

9/125um, 10/125um, available link distance to 30KM

#### Diagnostic LED:

Per system: Power (green) x 3, Ring Master (green) x 1, Alarm (red) x 1

Per port: Link (green on)/Activity(green blinking), Full duplex (Yellow on)/Collision (Yellow blinking)

#### DIP Switch:

JetNet 4005f/4008f: 1 x 6/9-pin DIP Switch

DIP switch #1 ~#5/8: Port Link Down Alarm Enable (On)/Disable(Off)

DIP switch #6/9: Ring Master Enable(On)/Disable(Off)

**Relay Alarm:** Dry Relay output with 1A@24V ability

### Power Requirements

**System Power:** 2 power input by terminal block

**Input Voltage:** DC 24V (12~48V) with Reverse Polarity Protection

#### Power Consumption:

JetNet 4005f: 4.1 Watts @ DC 24V

JetNet 4008f: 7.68 Watts @ DC 24V

### Mechanical

**Installation:** DIN-Rail mount or Wall Mount

**Case:** IP-31 grade aluminum metal case

#### Dimension:

135mm(H) x 53mm (W) x 105mm (D) ( without DIN rail clip)

#### Weight:

1.05kg with package, 0.675kg without package

### Environmental

**Operating Temperature:** -10 ~70°C

**Operating Humidity:** 5% ~ 95%, (non-condensing)

**Storage Temperature:** -40 ~ 85°C

**Hi-Pot:** 1.2KV for all ports and power

### Regulatory Approvals

**EMI:** FCC Class A, CE/EN55022.

#### EMS:

EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5,

EN61000-4-6, EN61000-4-8, EN61000-4-11

**Safety:** CE/EN60950

**Shock:** IEC60068-2-27

**Vibration:** IEC60068-2-6

**Free Fall:** IEC60068-2-32

#### MTBF:

JetNet 4005f: 297,077 Hours

JetNet 4008f: 297,077 Hours

MIL-HDBK-217F GB standard

**Warranty:** 5 years



## Ordering Information

### **JetNet 4005f Industrial 5-port Web-Managed Fast Ethernet Fiber Switch**

Includes:

- JetNet 4005f (JetNet 4005f-m,2km/JetNet 4005f-s,30km)
- Wall mount panel
- Quick Installation Guide

### **JetNet 4008f Industrial 8-port Web-Managed Fast Ethernet Fiber Switch**

Includes:

- JetNet 4008f (JetNet 4008f-m,2km/JetNet 4008f-s,30km)
- Wall mount panel
- Quick Installation Guide
- CD User manual