

JetNet 4008f

Industrial 8-port Web-Managed Fast Ethernet Fiber Switch



- 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
- Web-based configuration
- Aluminum case with IP-31 grade protection
- DIN-Rail/Wall-Mounting/Desktop Installation
- -10~70°C operating temperature for hazardous environment application

- 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 4008f is a 5/8-port 10/100TX Industrial Web-Managed Fast Ethernet Rail Switch with excellent software features including 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 challenges in industrial automation applications is to ensure permanent uptime in the system. To meet this requirement, JetNet 4008f provides Super Ring mechanism which has 20ms

recovery time - faster than RSTP. JetNet 4008f has a built-in relay output for port and power outage alarms. The fault relay alarm will inform you whenever there is any port link down. Just move up the DIP switch and the fault relay alarm will be functioning! To be operated in a harsh operating environment, JetNet 4008f is 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

Through the versatile and User-friendly interface configuration of VLAN, QoS, IGMP and event warning are not only to made easy, 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 traffic 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 failure. Just move up the DIP switch, the fault relay alarm will be activated! To be operated in a harsh environment, the

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True Reliability & Easy Installation

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

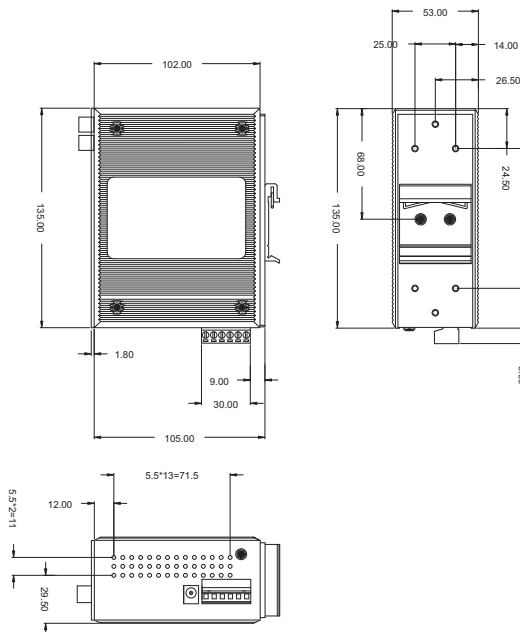
applications. JetNet 4008f can be easily wall mounted and mounted directly on DIN rail.

Brilliant Idea for Hazardous Environment Application

The 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:

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 4008f-m):

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

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

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

Fiber Transceiver:

JetNet 4008f-m

Wave-length:1310nm

Tx Power:-19~-14dBm(Min.)

Rx Sensitivity:-31~-14dBm(Max.)

Link Budget:12dBm

JetNet 4008f-s

Wave-length:1310nm

Tx Power:-15~-8dBm(Min.)

Rx Sensitivity:-34~-8dBm(Max.)

Link Budget:19dBm

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: 1 x 9-pin DIP Switch

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

DIP switch #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: 9 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, UL/cUL60950

Shock: IEC60068-2-27

Vibration: IEC60068-2-6

Free Fall: IEC60068-2-32

MTBF: 297,077 Hours

MIL-HDBK-217F GB standard

Warranty: 5 years

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Entry-Level
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Networking
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Communication
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Ethernet
I/O Server

Serial Device
Server

Media
Converter

Multiport
Serial Card

SFP Module

Din Rail
Power Supply

Ordering Information

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