

JetNet 4508f

Industrial 8-port Managed Fast Ethernet Fiber Switch



- 6 10/100 TX ports and 2 100Base-FX fiber ports, single-mode Fiber up to 30KM
- 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, Dual Homing and Couple Ring
- SNMP v1/v2c, IGMP snooping v1/v2, RMON, VLAN, QoS, Rate control for network management
- Aluminum case with IP-31 grade protection



Overview

JetNet 4508f is an 6 port 10/100TX plus 2 port 100Base-FX fiber Industrial Managed Fast Ethernet Switch with SNMP, Web management interface and superb software features for various networking applications. Especially the SNMP can be compatible with OPC server (Kepware) and provides most popular management function in automation; it has remote management ability through standard SNMP tools.

One of the main topics for industrial automation application is to ensure the system running with nonstop transmission. For this requirement, JetNet 4508f provides Super Ring mechanism which is within 20ms recovery time and faster than RSTP.

Besides, JetNet 4508f can merge RSTP and Super Ring function with core switch by Dual Homing function to deliver more reliable networking architecture for the system redundancy.

JetNet 4508f has built in relay output for port and power event. The relay output function will form a short circuit to trigger external one to inform your I.T. engineer when power or port link down event occurred. The port link down alarm is enabled by DIP-switch.

To survive in a harsh operating environment, JetNet 4508f equipped dual power input with redundancy and rigid aluminum case with excellent heat radiation for -10~70°C operating temperature.

Full Network Management & Enhanced Super Ring Compatibility

Versatile and User-friendly configuration interface, including SNMP, 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. JetNet 4508 series also support Dual Homing and Ring Coupling, featuring the strong ring redundancy.

▶ 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.

▶ Redundant Power Inputs & Easy Installation

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.

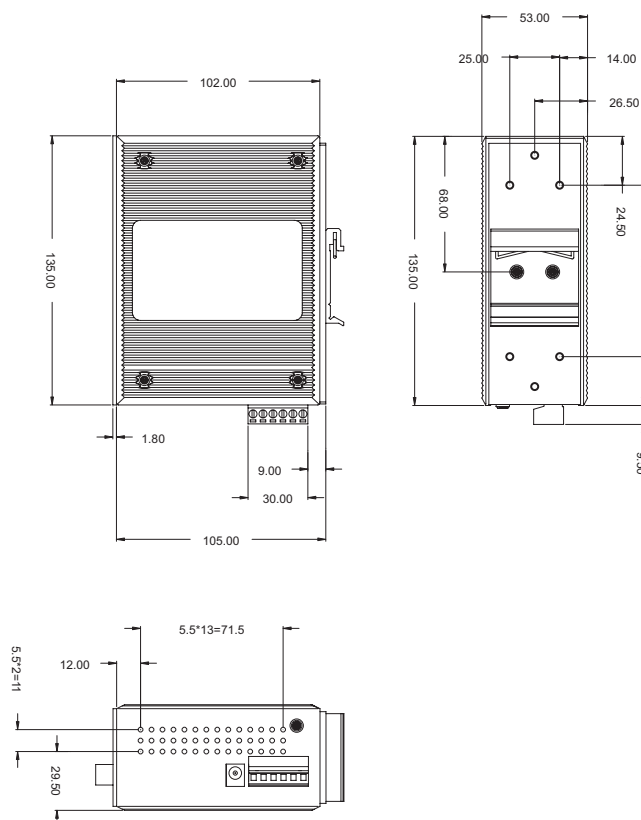
JetNet 4508f series can be easily wall mounted and be mounted directly on DIN rail.

▶ Hazardous Environment Application & True Reliability

The award winning IP-31 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.

With the 1.2KV Hi-Pot isolation protection, CE/FCC regulatory approvals, and 5-year global warranty, JetNet 4508f series are your reliable choice for hazardous applications.

▶ Dimensions (Unit –mm)



Specification

Technology

Standard: IEEE802.3 10Base-T
 IEEE802.3u 100Base-TX/100Base-FX
 IEEE802.3x flow control and Back-pressure
 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: 1.49Mpps
MAC Address: 2K MAC with Auto learning and refresh function
Packet Buffer: 1Mbits
Transfer performance: 14,880pps for Ethernet and 148,800pps for Fast Ethernet and transfer packet size from 64 to 1522Bytes

Management

Configuration: SNMP v1, v2c and Web browser. TFTP update, configuration backup/restore, DHCP client, warm reboot, reset to default, Admin password, Port Speed/Duplex control, status and statistics, SNMP trap, RMON
SNMP MIB: MIB-II, Bridge MIB, RMON, VLAN MIB, Ethernet like MIB, Korenix Private MIB.
SNMP Trap: Support 3 trap stations.
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
System Log: Provides 1000 entries for system or remote log server
E-mail Warning: SMTP warning by pre-defined events

Network Redundancy

Super Ring: The Super Ring function supports network recovery time less than 20ms with 250 entities, and also compatible with JetNet 3500, JetNet 4000 and JetNet 5010G
Coupling Ring: Provides the ability to couple 2 super rings
Dual Homing: Provides the ability to link Super ring and RSTP with higher level switch
Spanning Tree: IEEE802.1D Spanning Tree
 IEEE802.1w Rapid Spanning Tree

Interface

Number of Ports: 6 x 10/100Base-TX with Auto MDI/MDI-X, Auto-Negotiation functions. 2 x 100Base-FX
Connectors:
 10/100TX: 6 x RJ-45
 100Base-FX: 2 x SC connectors for Multi-mode or single mode fiber
 Terminal Block: 6-pin for 2 x power input and 1 relay alarm 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

Fiber Cable:

50/125um or 62.5/125 multi-mode fiber, 2KM (JetNet 4508f-m)
 8/125um or 9/125um single mode fiber, 30KM (JetNet 4508f-s)

Diagnostic LED:

Per system: Power (green) x 3, Ring Master (green) x 1, Alarm (red) x 1
 Per RJ-45 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 ~#8: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. The relay can be enable/disable by software configuration

Power Requirements

System Power: 2 power input by terminal block
Input Voltage: DC 24V (12~48V) with Reverse Polarity Protection
Power Consumption: JetNet 4508f: 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: 1.11kg with package
 0.735kg 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: 315,109 Hours, MIL-HDBK-217F GB
Warranty: 5 years

Ordering Information

JetNet 4508f-m Industrial 8-port Managed Fast Ethernet Fiber Switch

Includes:

- JetNet 4508f-m
- Wall mount panel
- Quick Installation Guide
- CD User manual

JetNet 4508f-s Industrial 8-port Managed Fast Ethernet Fiber Switch

Includes:

- JetNet 4508f-s
- Wall mount panel
- Quick Installation Guide
- CD User manual