

# JetNet 4508

## Industrial 8-port Managed Fast Ethernet Switch



- 8-port 10/100 TX 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, Dual Homing and Couple Ring
- SNMP v1/v2c, IGMP snooping v1/v2, RMON, VLAN, QoS, Rate control for network management
- Support 1.2KV Hi-Pot isolation protection
- Redundant power input DC 12~48V
- Fault relay alarm
- Aluminum case with IP-31 grade protection
- -20~70°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

JetNet 4508 is an 8 port 10/100TX Industrial Managed Fast Ethernet Switch with SNMP, Web management interface and innovative software features for various networking applications. The SNMP functionality is compatible with OPC server (Kepware) providing the most popular management functions in automation. Using standard SNMP tools it also has remote management ability.

One of the main challenges in industrial automation applications is to ensure permanent uptime in the system. For this requirement, JetNet 4508 provides the Super Ring mechanism which has 20ms recovery time - faster than RSTP. The JetNet 4508 can merge RSTP and Super Ring functionality with core

switches through the Dual Homing function to deliver a more reliable networking architecture for system redundancy.

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

For operation in harsh environments, the JetNet 4508 is equipped with dual power input with redundancy and rigid aluminum case with excellent heat radiation allowing a -20~70°C operating temperature.

### Full Network Management & Enhanced Super Ring Compatibility

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

Recovery time < 20 ms gives you fault-tolerant connection. JetNet 4508 series also supports Dual Homing and Ring Coupling, featuring the strong ring redundancy.

## High-Speed Transmission & True Reliability

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

With the 1.2KV Hi-Pot isolation protection, CE/FCC

regulatory approvals, and 5-year global warranty, JetNet 4508 series are your reliable choice for hazardous applications.

## Redundant Power Inputs & Easy Installation

Operating voltage is 12V~48V, the unit can also be cabled with a twin DC24V input. Dual power input and built-in reverse power polarity protection are designed as the redundant power system to ensure your power

continuity.

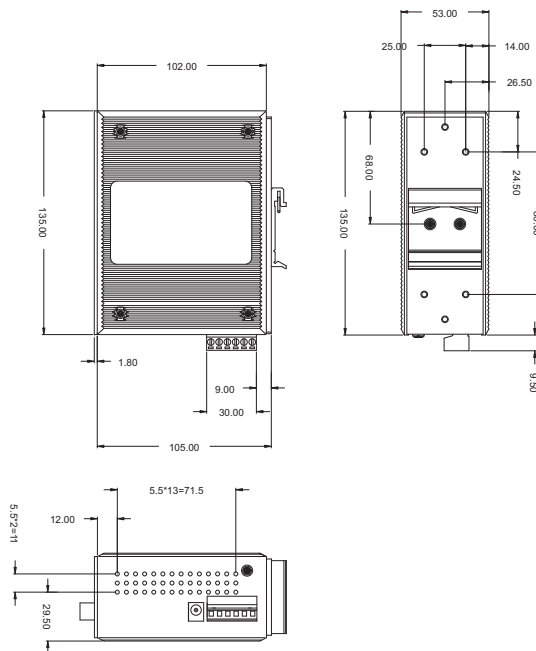
JetNet 4508 series can be easily wall mounted or mounted directly on DIN rail.

## Brilliant Idea for Hazardous Environment Application

The IP31 rigid aluminum flat casing and wide operation temperature range ensure reliable operation in 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  
 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 32Gbps Switch Fabric.

**System Throughput:** 14,880pps for Ethernet and 148,800 for Fast Ethernet

**Transfer packet size:** 64 to 1522Bytes.

**MAC Address:** 2K MAC

**Packet Buffer:** 1Mbits

### 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:** Recovery time less than 20ms and 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

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

### Interface

**Number of Ports:** 8 x 10/100Base-TX with Auto MDI/MDI-X, Auto-Negotiation functions.

**Connectors:** 10/100TX: 8 x RJ-45

**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

#### 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

### Power Requirements

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

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

**Power Consumption:** 7 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:**

1.106g with package

0.731g without package

### Environmental

**Operating Temperature:** -20 ~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:** 319,175 Hours, MIL-HDBK-217F GB standard

**Warranty:** 5 years

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

## Ordering Information

### JetNet 4508 Industrial 8-port Managed Fast Ethernet Switch

Includes:

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