

JetNet 4508

Industrial 8-port Managed Fast Ethernet Switch



- 10/100 TX ports 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
- Aluminum case with IP-31 grade protection
- -20~70°C operating temperature for hazardous

Overview

JetNet 4508 is an 8 port 10/100TX Industrial Managed Fast Ethernet Switch with SNMP, Web management interface and super 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 4508 provides Super Ring mechanism which is within 20ms recovery time and faster than RSTP. Besides, JetNet 4508 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 4508 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 be operated in a harsh operating environment, JetNet 4508 equipped dual power input with redundancy and rigid aluminum case with excellent heat radiation for -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, etc, not only to make your job easier, but also save your time and money.

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

High-Speed Transmission & True Reliability

Excellent data transmission performance is provided for you. No works 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

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

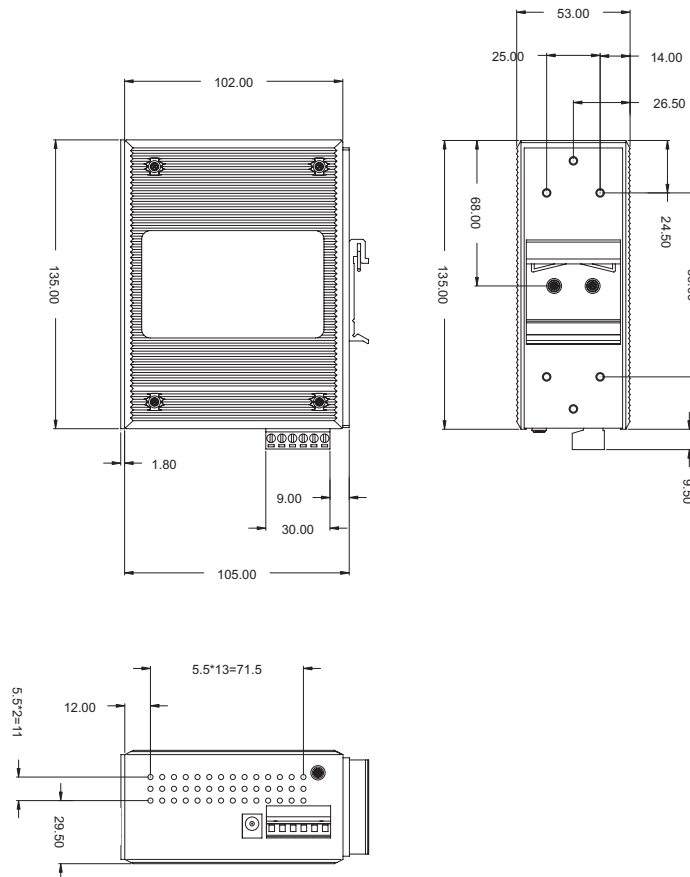
continuity. JetNet 4508 series can be easily wall mounted and be mounted directly on DIN rail.

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
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: 5.04 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

Ordering Information

JetNet 4508 Industrial 8-port Managed Fast Ethernet Switch

Includes:

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