

JetNet 3008 v3 JetNet 3008f v3

Industrial 8-port Ethernet Switch

User's Manual

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Federal Communications Commission (FCC) Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his expense.

The user is cautioned that changes and modifications made to the equipment without approval of the manufacturer could void the user's authority to operate this equipment.



1. Introduction

The JetNet 3008V3/3008f V3 is an 8-port Fast Ethernet switch designed with enhanced design specifications, including wider operating temperature and power input range to best fit in heavy industrial field applications. It is equipped with 2.0Gbps High performance switching engine with packet forwarding and filtering mechanism to fulfill higher performance industrial data communication requirements in field site deployments. The graceful packet forwarding ability enables the JetNet 3008f V3 to handle from 64 to 1522 bytes packet sizes into 2 forwarding priority queues which is compliant with IEEE 802.1p Class of Service for providing best data forwarding performance.

In addition, to ensure best network performance, both broadcast storm filtering and flow control functions can ensure your data traffic delivery to destination without traffic congestion. The combination of enhanced network features and rugged specs make the JetNet 3008 V3 /JetNet 3008f V3 become your best entry-level networking solution in industrial deployments.

Reliable Power System Design

In order to operate under harsh environment of industrial sites, JetNet 3008 V3 series are designed with redundant wide power input 10~60VDC range as well as auto polarity reverse function to ensure the switch's capability of transmitting data under poor DC power sourcing.

Brilliant Electromagnetic Interference Immunity

In industrial applications with widespread electromagnetic interference, such as the automation control and high power motor operating environments, the switch's electromagnetic immunity ability will affect the quality of data transfer. The JetNet 3008 V3, compliant with the electromagnetic interference requirements for Heavy Industrial applications, provides a high level of electromagnetic susceptibility exceeding the IEC/EN 61000-6-2 standard with distinguished electrical slow transient (Surge), radio-frequency electromagnetic field (RS), Electrical Fast Transient (EFT) protections. Equipped with a rugged aluminum case with IP31 grade protection and high thermal conductivity design, it is capable of resisting -25~70°C (JetNet 3008), -10~70°C (JetNet 3008f) and -40~75°C(JetNet 3008-w/ JetNet 3008f-w) wide temperature ranges while providing reliable connectivity under harsh industrial environments.

This session will introduce following information of JetNet 3008 for your reference.

1. Features

2. Packing list

1-1. Features

- 8 10/100TX ports JetNet 3008
- 6 10/100TX, plus 2 100FX in Multi-mode or Single-mode JetNet 3008f
- Compact size with full power redundancy
- 2.0Gbps Switch Fabric with excellent data exchange performance
- QoS for packet forwarding precedence
- Broadcast storm packet filtering
- Port and power event alarm
- Aluminum metal case with IP31 grade protection
- DIN rail installation
- Dual power input DC10~60V
- Support 1.5KV Hi-Pot isolation protection
- Operating temperature: -25~70°C (JetNet 3008 V3) and -40~75°C (JetNet 3008-w V3), -10~70°C (JetNet 3008f V3) and -40~75°C (JetNet 3008f-w V3)

1-2. Packing List

JetNet 3008 v3/JetNet 3008f v3 Industrial 8-port Fast Ethernet Switch is packaged with the following items:

- JetNet 3008 or JetNet 3008f
- Quick Installation Guide







JetNet 3008f v3



Quick Installation Guide

Contact your sales representative if any item is missing or damaged.

2. Hardware Description

This session will introduce the hardware information as following:

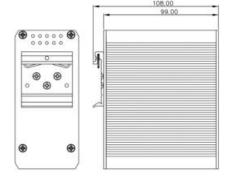
- 2-1. dimensions
- 2-2. Front Panel
- 2-3. Bottom View
- 2-4. LEDs of system and port
- 2-5. Connectors

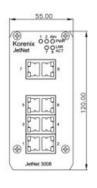
2.1. Dimensions

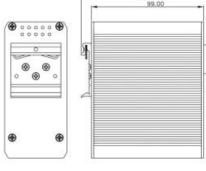
JetNet 3008 / JetNet 3008f 8-port Industrial Fast Ethernet Rail Switch dimensions are 120 mm (H) x 55 mm (W) x 108 mm (D), detail mechanical design drawings are attached as following:

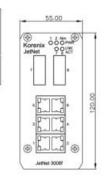
JetNet 3008

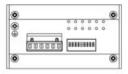
JetNet 3008f













2-2 Front Panel

The Front Panel of the JetNet 3008/JetNet 3008f Industrial 8-port Fast Ethernet Switch is shown in Figure A.

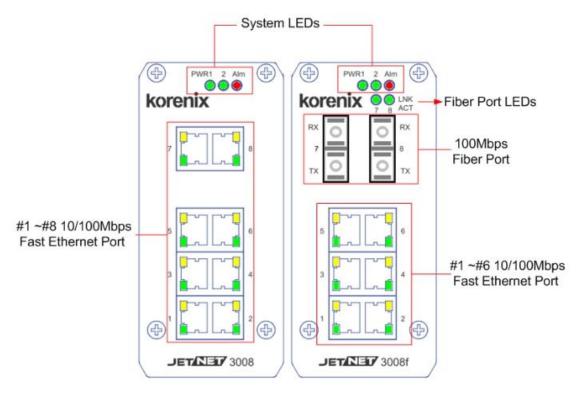


Figure A. Front Panel of the JetNet 3008 / JetNet 3008f.

2-3. Bottom View

The bottom view of the JetNet 3008/JetNet 3008f Industrial 8-port Ethernet Switch consists of one 6-pin removable terminal block connector for two DC power inputs and event alarm output. There is one 9-pin DIP SWITCH on the bottom for alarm control of port or power event selection.

Earth Ground Screw

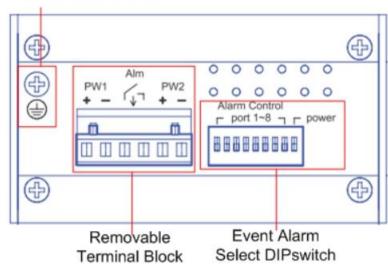


Figure B. Bottom view of the JetNet 3008/ JetNet 3008f

2-4. LED Indicators

There are some system diagnostic LEDs and Ethernet Port LEDs located on the front panel of JetNet3008 / JetNet 3008f Industrial 8-port Ethernet Switch. These LED indicators provide administrators with real-time system status. The table-1 gives the descriptions of the function of each LED indicator.

LED	Status	Description
PWR1	Green on	Power is on.
PVIKI	Off	No power is being supplied.
PWR2	Green on	Power is on.
PVVKZ	Off	No power is being supplied.
Alm	Red on	Port link down or power failure event occurred.
	Off	No event.
	Link (Green on)	A network device is detected and link up.
Port 1~8 (JetNet 3008)	Activity (Green blinks)	The port is transmitting or receiving packets from the TX device.
Port 1~6 (JetNet 3008f)	Speed (Yellow on/ 100Mbps)	A network device is detected and link on 100Mbps.
	Speed (Yellow off)	A network device is detected and link on 10Mbps.

Fiber port #7, #8	100Mbps Link (Green on)	The port is operating in full-duplex mode.
(JetNet 3008f)	100Mbps Activity (Green Blinks)	The port is transmitting or receiving packets from the TX device.

Table 1

2-5. Ports

RJ-45 ports (Auto MDI/MDIX): JetNet 3008 has eight 10/100 Mbps auto-sensing RJ-45 ports for 10Base-T or 100Base-TX device connection and JetNet 3008f has six 10/100Mbps RJ-45 ports and two 100Mbps fiber ports for multi-mode or single-mode fiber cable in SC type connector. The RJ-45 ports will auto-detect 10Base-T and 100Base-TX connections. Auto MDI/MDIX function allows users to connect another switch or workstation without changing straight through or crossover cabling. See Figure C and C-1 for the schematic diagram of straight through and crossover cabling.

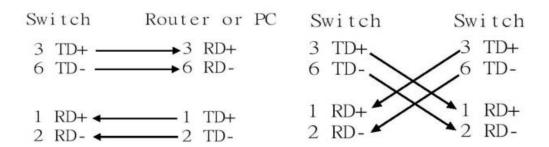


Figure C Straight Through Cabling Schematic Schematic

Figure C-1 Cross Over Cabling

All RJ-45 ports of JetNet 3008/ JetNet 3008f support auto-MDI/MDI-X function. When you use an Ethernet cable to connect other devices, such as computers, switches or hubs, pin 1, 2, 3, and 6 of the 8-pin RJ45 connector are used to communicate with the connected devices. Pin1, 2, 3, and 6's signals are converted by the MDI-X function, as shown in Table -2.

Pin MDI-X	Signals	MDI Signals

1	RD+	TD+
2	RD-	TD-
3	TD+	RD+
6	TD-	RD-

Table-2

3. Mounting Installation

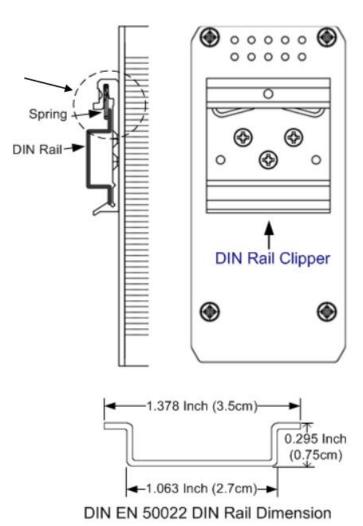
DIN-Rail Mounting

The DIN-Rail clip is already attached on the rear side of JetNet 3008/ JetNet 3008f. JetNet 3008 series supports EN 50022 standard DIN Rail, in the following diagram includes the dimension of EN 55022 DIN Rail for your reference.

The DIN rail should behind the spring when install the JetNet 3008/JetNet 3008f onto the standard DIN Rail.

Follow the steps below to mount the JetNet 3008 /JetNet 3008f on the DIN-Rail track.

- Insert the upper end of the DIN-Rail clip into the back of the DIN-Rail track from its upper side
- 2. Lightly push the bottom of the DIN-Rail clip into the track.
- 3. Check if the DIN-Rail clip is

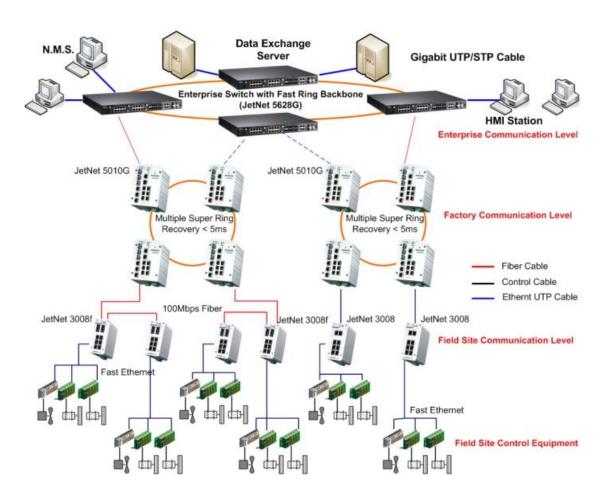


tightly attached to the track.

4. To remove the JetNet 3008/ JetNet 3008f-m from the track, reverse the steps above.

4. Hardware Installation

The following figure illustrates a typical application of JetNet 3008 / JetNet 3008f in field site. It includes Enterprise communication backbone network, Factory communication, field site communication and field site control layers. The control equipments access and report production information through the JetNet 3008 or JetNet 3008f and uplink to factory communication level by fiber or copper which with network redundancy.



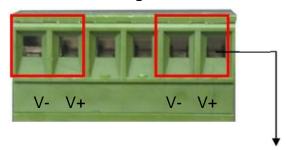
This session will introduce the hardware installation, includes:

- 4-1. Wiring the DC Power Inputs
- 4-2. Wiring the Relay Alarm
- 4-3. Wiring Earth Grounding
- 4-4 Enable Alarm Relay Function
- 4-5. Cabling
- 4-6. System Power-On and Testing

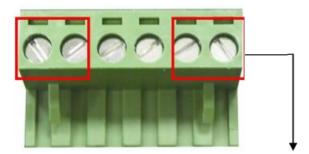
4-1. Wiring the DC Power Inputs

Follow the steps below to wire JetNet 3008's / JetNet 3008f's dual DC power inputs.

[Note] The suitable electric wire ranges is from 12 to 24 AWG.



 Insert the positive and negative wires into the V+ and Vcontacts respectively of the terminal block connector



2. Tighten the wire-clamp screws to prevent the DC wires from being loosened.

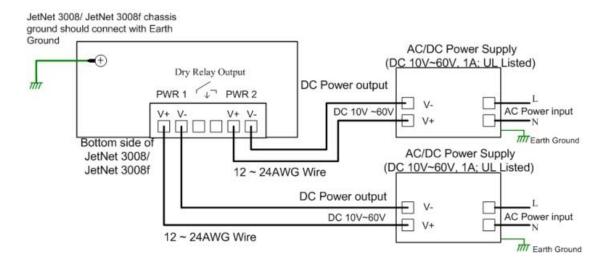
Equipment intended for installation in a Restricted Access Location.



Restricted Access Location:

This equipment is intended to be installed in a RESTRICTED ACCESS LOCATION only.

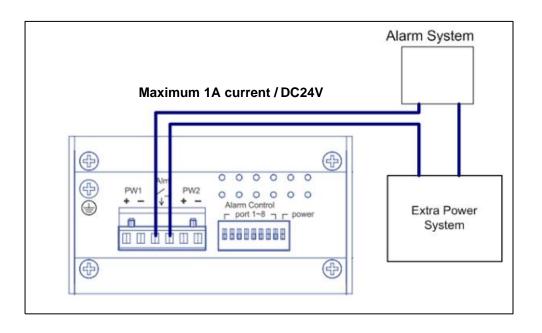
Before install power, be sure the power supply module is compliance with UL certificated LPS power and the power system is shut down to avoid any damage. About the wiring please refer following diagram.



4-2. Wiring the Alarm Relay

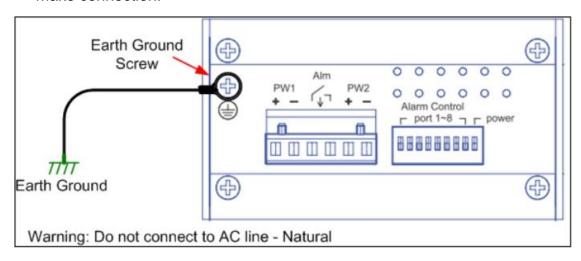
JetNet 3008 /JetNet 3008f provides one dry relay output for power or port link event; the alarm relay is "Normal open" and form a close circuit

The maximum current is 1A. In the following diagram shows how to make an alarm circuit.



4-3. Wiring Earth Grounding

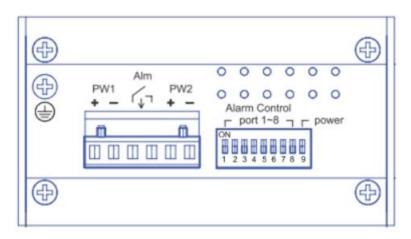
In the real fields, there might have a lot of automatic device, such as AC motors, electric welding machine, power generator; those devices will generate electromagnetic and disturb communications. To prevent those noises, the switch should be well earthed. In the figure-shows how to make connection.



4-4. Enabled the Event Alarm Function

This session introduces how to configure and enable the event alarm to alert maintenance engineer once system event occurred. Both of JetNet 3008 and JetNet 3008f equipped with one dry relay output for port link fails or power fails. The feature is controlled by digital control circuits and effect immediately without system reset when DIP SWITCH changed.

On the bottom side of JetNet 3008 and JetNet 3008f, there is one 9-Pin DIP SWITCH for alarm control. By inserting the port and power wiring, setting the DIP SWITCH of the intended Alarm to "ON", the relay output will form a short circuit if alarm occurred.



The DIP SWITCH Setting for the Alarm Relay Output is show as following table.

Pin No.#	Status	Description
P1 to P8	ON	To enable port link down alarm at this port.
(Pin1 ~8)	Off	To disable port link down alarm at this port.
P9	ON	To enable power failure alarm.
F 9	Off	To disable power failure alarm.

4-5. Cabling

The UTP cable connection between the JetNet 3008 and the attached devices (switches, hubs, workstations, etc.) must be less than 100 meters (328 ft.) long.

The transmission distance of JetNet 3008f is depends on the type of fiber transceiver model and the attenuation of optical fiber cable. The following information is fiber transceiver specification of JetNet 3008f series. Please ensure the cable attenuation between two far end nodes is less than the power budget of fiber transceiver. Table-3 shows the specification of optical fiber transceiver JetNet 3008f used.

model	Cable Type	Con.	Wavelength	TXPwr(min)	TxPwr(Max)	RxPwr(Min)	RxPwr(Max)	LinkBudg(dbm)	Distance(km)
JetNet	Multi-mode	SC	121000	20dDm	1.4 dDm	21 dD	OdDoo	11 dDm	2Km/5Km
3008f-m	50~62.5/125	SC	1310nm	-20dBm	-14dBm	-31dBm	0dBm	11dBm	Note1
JetNet	Single-mode	00	4040	4.5 dD	OdDes	2.4 dD	O dD as	40 dD	201
3008f-s	8~10/125	SC	1310nm	-15dBm	-8dBm	-34dBm	-8dBm	19dBm	30km

Table -3 Specification of Fiber Transceiver

TxPwr (Min): Minimum Transmit power

RxPwr (Min): Maximum Receive sensitivity

RxPwr (Max): Maximum Transmit power

RxPwr (Max): Minimum Receive sensitivity

Link Budget= TxPwr (Min) -Rx Pwr (Min)

Note:

- In the IEEE standard, it suggests the available transmission distance is 2KM for 62.5/125um fiber optical cable in 1310nm wave length. Actually, the attenuation of multi-mode 62.5/125um optical fiber cable is 1.5dBm/KM and the maximum link distance can up to 4~5km.
- 2. IEEE organization recommends maximum optical fiber cable distances as defined in the table-4 shows as below:

Standard	Data Rate (Mbps)	Cable type	IEEE standard Distance
10Base-FL	10	850nm, 50/125um or 62.5/125um Multi-mode optical fiber cable	2km
100Base-FX	100	1310nm,50/125um or 62.5/125um Multi-mode optical fiber cable	2km
100Base-SX	100	850nm, 50/125um or 62.5/125um Multi-mode optical fiber cable	300m
1000Base-SX	1000	850nm, 50/125um Multi-mode optical fiber cable 850nm, 62.5/125um Multi-mode optical fiber cable	550m 220m
1000Base-LX	1000	1310nm, 50/125um or 62.5/125um Multi-mode optical fiber cable 1310nm, 9/125um Single-mode optical fiber cable	550m 5km

1000Base-LH	1000	1550nm,9/125um Single-mode optical fiber cable	70km

Optical Fiber cable attenuation

Fiber Type	Wave length	Attenuation /km *1	Attenuation /km *2	Connector loss	Splice loss
Multi mode	850nm	3.5dBm	2.5dBm	0.75dBm	0.1dBm
50/125um	1310mm	1.5dBm	0.8dBm	0.7002111	0. Tubiii
Multi mode	850nm	3.5dBm	3.0dBm	0.75dBm	0.1dBm
62.5/125um	1310nm	1.5dBm	0.7dBm	0.73dbiii	0.100111
Single mode	1310nm	0.4dBm	0.35dBm	0.75dBm	0.1dBm
9/125um	13101111	0.400111	0.55dBm	0.73dbiii	o. Iubiii
Single mode	1550nm	0.3dBm	0.22dBm	0.75dBm	0.1dBm
9/125um	10001111	0.000111	0.2200111	0.73dbiii	o. Idbiii

Table-4

4-6. System Power-On and Testing

- Take your JetNet 3008 / JetNet 3008f Industrial 8-port Fast Ethernet Switch out from the box.
- To place the JetNet 3008 on the DIN-Rail track, refer to the Mounting Installation section.
- Pull the terminal block off the JetNet 3008 and wire the power lines.
 Refer to the Wiring the DC Power Inputs section for how to wire the power inputs.
- 4. PWR1 and PWR2 dual power inputs can be connected to power sources simultaneously. When the primary power source fails (the default setting is PWR1), the system will automatically switch to the secondary power source (PWR2), preventing any power interruption.
- 5. Check the LEDs for PWR1 and PWR2 to make sure that your JetNet 3008 is operating normally.
- 6. Use Category-5 or above straight through Ethernet cables with RJ-45 connectors to connect network devices.

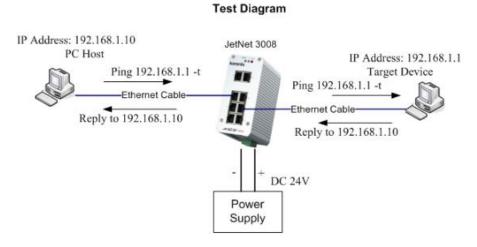
^{* 1.} These values are per TIA/EIA and other industrial specifications.

^{* 2.} These values are one example of the performance that can be obtained with a new fiber installation.

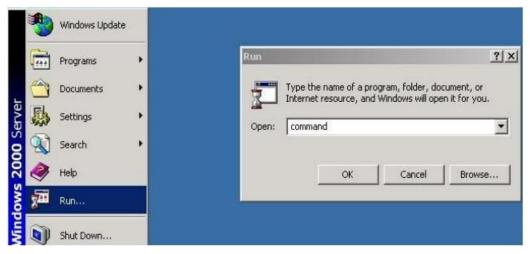
7. Connect one side of an Ethernet cable with a RJ-45 connector to the JetNet 3008's Ethernet port (RJ-45 port), and the other side of the Ethernet cable to target device that equipped IP address and can handle ICMP protocol, like as ping packet.

[Note] Make sure that the connected network switches support MDI/MDI-X function. If they I do not support this function, use a crossover Ethernet cable.

- 8. Check the port status LED indicator (blinking green) on the JetNet3008 to see if the network connection is established successfully.
- 9. Power on your host PC, make an Ethernet connection to JetNet 3008 and check the connected port is link up ;The connection diagram shown as below:



10. To enable the "Command Line mode", click on Run in the Start menu, type Command, and click on OK to continue.



Type ping 192.168.1.1 command to check the connection. Here we use IP

address 192.168.1.1 as an example.

```
C:\\ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time<10ms TTL=255

Ping statistics for 192.168.1.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

- 11. Repeat step 10 to make sure that the connection of each device connected to the JetNet3008 is successfully established.
- 12. Power on the PC host, activate the Command Line mode, and ping the connected Ethernet device by typing "ping 192.168.1.1 –t" command to see if it will respond. Do remember the PC host IP address is same subnet address as target device 192.168.1.1.
- 13. The parameter-"t" allow you to continue to ping the network device, as shown in the figure below.

```
GN C:\WINDOWS\system32\cmd exe
                                                                              _ O X
C: >ping -t 192.168.1.1
Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
```

Before you continue, make sure that both PWR1 and PWR2 are

successfully connected to power sources. When PWR1 fails, the LED for PWR1 will go out. At that moment, if the ping command is still being replied to, then it proves that the redundant power input function works normally.

5. Packet forwarding and filtering ability

The JetNet 3008/ JetNet 3008f features packet filtering functions for broadcast packet control protection and QoS. Both of features can provide more graceful performance in a crowded network by traffic filtering and prioritize.

This session will introduce the principle of traffic control and forwarding precedence, includes Broadcast control and Quality of Service.

5-1. Broadcast Control

The JetNet 3008 or JetNet 3008f begins to drops broadcast packets which DA (destination address) are equal to FF:FF:FF:FF:FF:FF if the received broadcast packets are more than the threshold – 198 packets/ per second at 100Mbps or 19 packets / per second at 10Mbps link speed.

All of ports are enabled with this function without any configuration to provides better network performance and prevent network congest with the flooding of broadcast packets.

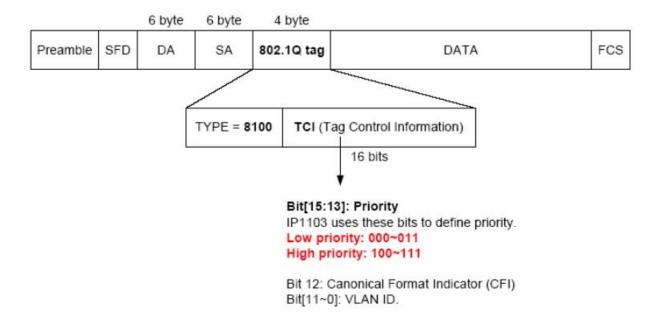
5-2. Quality of Service

The JetNet 3008 / 3008f supports frame type priority function, high priority packet will be queued to high priority queue to share more bandwidth. The ratio of bandwidth of high priority and low priority queue is 8:1. After 8 high priority packets is progressed, then 1 low priority.

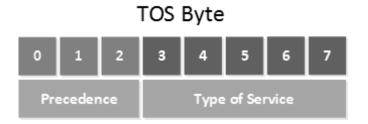
Both of JetNet 3008 and JetNet 3008f can examine the specific bits of VLAN Tag and TCP/IP TOS of IPv4 and IPv6.

IEEE 802.1Q tag based CoS

The JetNet 3008/ 3008f will examine the 3 bits of priority field carried by a VLAN tag and map it to the corresponding priority. A packet with priority field ranging from 0 to 3 will be treated as a low priority packet, and will be stored in low priority queue. A packet with priority field ranging from 4 to 7 will be treated as a high priority packet, and will be stored in high priority queue.



The JetNet 3008/3008f also provides the IP layer QoS function by recognizing the priority octet and mapping it to the corresponding priority.



For an IPv4 packet, it is embedded in the TOS (type of Service) Octet. The first 3 bits are used to define a precedence. The higher the value, the more important the IP packet is, in case of congestion, the router would drop the low-priority packets first. The type of service bits are used to assign what kind of delay, throughput, and reliability we want.

6. Trouble shooting

- Make sure you are using the correct DC power suppliers (DC12 to 48 V). Do not use power suppliers with DC output over 48V. It may damage devices.
- Select Ethernet cables with specifications suitable for your applications to set up your systems. Ethernet cables are categorized into unshielded twisted-pair (UTP) and shielded twisted-pair (STP) cables. Category 3, 4, 5, 6 Ethernet cables are suitable for systems with 10 Mbps transmission speed. For systems with 100 Mbps transmission speed, Category 5, 6 Ethernet cables are the only suitable specifications for this environment. You also need to make sure that the distance between each node cannot be longer than 100 meters (328 feet).
- If the power LEDs go off when the power cord is plugged in, a power failure might occur. Check the power output connection to see if there is any error at the power source. If you still cannot solve the problem, contact your local dealer for assistance.

7. Technical Specifications

Technology

Standard IEEE 802.3 10Base-T Ethernet

IEEE 802.3u 100Base-TX /100Base-FX Fast Ethernet

IEEE 802.3x Flow Control and Back-pressure

IEEE 802.1p Class of Service (CoS)

System Performance

Switch Technology Store and Forward Technology with 2.0Gbps Switch Fabric

System Throughput Mega packets per second, 64 bytes packet size

14,880pps for 10Base-T 148,800pps for 100Base-TX (pps: Packet Per Second)

Transfer performance 14,880pps for Ethernet and 148,800 for Fast Ethernet

Transfer packet size 64 bytes to 1522bytes (includes VLAN Tag)

MAC Address 2K MAC address table with auto learning

Packet Buffer 448Kilo bits shared memory for packet buffer

Relay Alarm Output Dry Relay output with 1A /24V DC ability

Broadcast Storm Control Default enabled.

traffic threshold: 200 packets/ Sec. @100Mbps; 20 packets/Sec. @ 10Mbps Provides 2 packet forwarding Queues: High Queue (4~7), Low Queue (0~3) Default Enabled. Supports VLAN tag priority and IPv4 packet precedence

Event alarm relay Provides port and power event alarm; Enabled by 9-PIN Dipswitch

Interface

Class of Service

Quality of Service

Enclosure Port Fast Ethernet communication port: 8 x RJ-45

Alarm relay & Power input: 6 pint removable terminal block

Cables 10Base-T: 2-pairs UTP/STP Cat. 3, 4, 5 cable, EIA/TIA-568B 100-ohm (100m)

100 Base-TX: 2-pairs UTP/STP Cat. 5 cable, EIA/TIA-568B 100-ohm (100m) 100Base-FX: Multi-mode (50/125um, 62.5/125um) fiber cable /2KM , Single-

mode (8/125um, 9/125um, 10/125um) fiber cable/ 30KM

Fiber Transceiver JetNet 3008f-m V3

Wave-length:1310nm

Tx Power: -14 ~-20dBm (Min.)
Rx Sensitivity: 0~-31dBm (Max.)

Link Budget: 11dB **JetNet 3008f-s V3**Wave-length:1310nm

Tx Power:-15~-8dBm (Min.)
Rx Sensitivity:-34~-8dBm (Max.)

Link Budget:19dB

System Diagnostic LEDs

System Power status (Green): On (power is on applying)

Alarm Output (Red): On (Output conductor is formed as a close circuit)

Ethernet port RJ-45: Link (Green on) / Activity (Green blinks)

RJ-45: 100Mbps Link (Yellow on)/ 10Mbps Link (Yellow off)

100Mbps Fiber: Link(Green on)/ Active (Green blinks)

Power Requirements

System Power 2 x Redundant power input with polarity auto reverse function

Power Input Range: DC 24V (Voltage fluctuations range: 10~60V

Power System Type: Positive or Negative power source

Power Consumption 3.0 Watts / DC 24V ; Inrush current:62.8A @ DC 60V

Mechanical

Installation DIN Rail Mounting

Case Aluminum metal case with grade 31 protection

Dimension (mm) 55(W) x 120(H) x 108 (D) / with DIN Rail Clip

Weight JetNet 3008 V3: 0.555Kg

JetNet 3008 V3: 0.555Kg

JetNet 3008f V3:0.575kg

Environmental

Operating Temperature $-25\sim70^{\circ}\text{C} \text{ (JetNet 3008); } -40\sim75^{\circ}\text{C (JetNet 3008-w)}$

Note-1 -10~70°C (JetNet 3008f); -40~75 °C (JetNet 3008f-w)

Operating Humidity 0% ~ 90%, non-condensing

Storage Temperature -40 ~ 85 °C

Hi-Pot Insulation AC 1.5KV for Port-Port / Port-Case/Port-power , DC 1.5KV Power-Case

Regulatory Approvals

EMC Compliance with EN50121-4 Railway Track Side EMC

EMI

CISPR 16-1-2/16-2-1/16-2-3/22

FCC Part 15 Subpart B Class A, ANSI C63.4

Heavy Industrial IEC/EN61000-6-4

EMS

Heavy Industrial IEC/EN 61000-6-2

IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6,

IEC 61000-4-8

Free Fall IEC60068-2-32 with package Note-1

Warranty Global 5 years

Revision History

Edition	Date	Modifications
V1.0	Nov-2011	Modify from 3008 V2 user manual.
		Relay 1A, 24V -> 0.5A, 24V (Drawing)
V1.1	26-Jun-2013	Remove – CD User Manual
V1.2	17-Oct-2019	Updated Relay 1A, 24V