

JetNet 3006f

Industrial 6-port Fast Ethernet Switch



CE FC  RoHS

3.2Gbps switch fabric	2-port Fiber	NEMA TS2
1.5KV Hi-Pot	Dual 10-60VDC	-25~75°C

- 4 10/100TX Ports with Auto MDI/MDI-X
- 2 100Mbps Fast Ethernet Fiber ports
- Compact size with full power redundancy
- 3.2Gbps Switch Fabric
- Port and power event alarm
- Aluminum enclosure with IP-30 grade protection
- NEMA -TS2 compliance
- DIN-Rail mount
- Dual power inputs DC10~60V
- AC 1.5KV Hi-pot isolation protection
- -25~70°C operating temperature for hazardous environment application (JetNet 3006f-w : -40~70°C, available by request)

Overview

The JetNet 3006f is an Industrial 6-port 10/100Mbps Fast Ethernet Switch with 2 100Mbps fiber ports for use in applications where greater distances need to be spanned. It implements fiber ports with multi-mode 2KM or single-mode 30KM transceivers to avoid interferences and achieve stable data transmission in extended field site installations. Incorporating 3.2Gbps switching fabric with non-blocking store and forward technology, JetNet 3006f fulfills the high bandwidth industrial communication requirements of full wire transmission with its

excellent data exchange performance. To survive under hazardous environmental conditions, the NEMA-TS2 compliant switch has dual power inputs, AC 1.5KV Hi-pot isolation protection and wide operating temperature for avoiding any power interruption and providing reliable network performance. Users can further benefit from the superiority, user-friendly and cost-effective design of JetNet 3006f for ensuring reliable data transmission in their industrial field site installations.

Plug-and-Play Switch & High-Speed Transmission

JetNet 3006 requires no user setup and immediately starts operating as soon as you power it up. With up to 3.2 Gbps transmission rate, no traffic will be

delayed, as a result ensuring the excellent data transmission performance.

Wide Range Redundant Power Inputs & True Reliability

In field site applications, unstable power input always impacts on the reliability of system and causes an interruption of communication. To provide a higher reliability, JetNet 3006f has a wide range redundant power input - 10~60VDC that meets the NEMA-TS2

requirements for power variation. In addition, with -25~70°C and -40~70°C (JetNet 3006f-w model) wide operating temperature range the JetNet 3006f can deliver high performance under harsh environments.

Easy and Simple Maintenance

For the field site maintenance, JetNet 3006f integrates port and power alarm relay output to alert field engineers when a failure occurs.

This function is configured by series of friendly DIP-Switches for the purposes of easy maintenance.

Specification

Technology

Standard:

IEEE802.3 10Base-T
IEEE802.3u 100Base-TX
IEEE802.3x flow control

Switch Technology:

3.2 Gbps Store and Forwarding Technology

System Performance

Aggregate System Throughput: 1.49Mega Packet per second / 64 byte packet size

MAC Address: 1K MAC

Packet Buffer: 512Kbits

Transfer Packet Size:

148,80pps for Ethernet 10Base-T
148810pps for Fast Ethernet 100Base-TX
64~1552 Bytes packet forwarding

Event alarm relay: Provides port and power event alarm

DIP Switch:

DIP Switch 1~6 : port link down event alarm control
DIP Switch 7: power alarm control

Interface

Number of Ports: 4 x 10/100 Base-TX with Auto MDI/MDI-X, Auto-Negotiation function

2 100Base-FX fiber ports

Connectors: 10/100 Base-TX: RJ-45

100Mbps Fiber: SC

Power: included in 6-pin terminal block

Alarm relay: included in 6-pin terminal block

Cables:

RJ-45 Port:

Cat.3 twisted cable for 10Base-T 10Mbps

Cat.4, Cat.5 twisted cable for 10/100Base-TX 100Mbps

Supports shielded or un-shielded cable, maximum 100 meters link distance

Fiber Port:

Multi-mode: 62.5/125um or 50/125um

Single-mode: 8/125um, 9/125um, 10/125um

Fiber Transceiver:

JetNet 3006f-m

Wave-length:1310nm

Tx Power: -14(max) --20dBm (min.)

Rx Sensitivity: -31dBm (max.)~ 0 (min)

Link Budget: 11dB

JetNet 3006f-s

Wave-length:1310nm

Tx Power:-15(min.)~-8dBm (max.)

Rx Sensitivity:-34(max.)~-8dBm (min.)

Link Budget:19dB

Diagnostic LED:

System Power (Green) : Power 1, 2

Ethernet Port: Link (Green), Activity (Yellow) Alarm(Red)

Power Requirements

System Power: DC 10~60V input , supports Positive/Negative power system

Power Consumption: 6 Watts @ DC 48V

Mechanical

Installation: DIN-Rail mount or Wall Mount

Case: IP-30 grade steel metal case

Dimension:

120mm(H) x 55mm (W) x 108mm (D) (without DIN rail clip)

Weight:

0.87kg with package

0.45kg without package

Environmental

Operating Temperature:

Regular version :-25~70°C,

0%~95% Humidity (non-condensing)

Wide Temp. Version: -40~75°C, 0%~95%

Humidity (non-condensing)

Operating Humidity: 0% ~ 95%, (non-condensing)

Storage Temperature: -40 ~ 85 °C

Storage Humidity: 0% ~ 95%, (non-condensing)

Regulatory Approvals

EMI: FCC class A, CE/EN55022 class A

EMS:

EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11

Shock: IEC60068-2-27

Vibration: IEC60068-2-6

Free Fall: IEC60068-2-32

MTBF: 400,000hours *MIL-HDBK-217F GB(MILITARY HANDBOOK) standard (To Be update)

Warranty: 5 years

Ordering Information

JetNet 3006f-m Industrial 6-port Fast Ethernet Switch, 2 SC/multi-mode,2KM

JetNet 3006f-s Industrial 6-port Fast Ethernet Switch, 2 SC/single-mode,30KM

Includes:

- JetNet 3006f-m / JetNet 3006f-s
- Quick Installation Guide
- CD User manual