

# JetNet 3006

## Industrial 6-port Fast Ethernet Switch



- 6 10/100TX Ports with Auto MDI/MDI-X
- 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
- -25~70oC operating temperature for hazardous environment application (JetNet 3006-w: -40~70°C, available by request)

CE FC  RoHS



### Overview

The JetNet 3006 is an Industrial 6-port 10/100Mbps Fast Ethernet Switch, incorporating 3.2Gbps switching fabric with non-blocking store and forward technology to fulfill 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 3006 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.

### Easy and Simple Maintenance

For the field site maintenance, JetNet 3006 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:** 6 x 10/100 Base-TX with Auto MDI/MDI-X, Auto-Negotiation function

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

Power: included in 6-pin terminal block

Alarm relay: included in 6-pin terminal block

**Cables:** 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

**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 3006 Industrial 6-port Fast Ethernet Switch

Includes:

- JetNet 3006
- Quick Installation Guide
- CD User manual