

# JetNet 3005f

## Industrial 5-port Redundant Fast Ethernet Fiber Switch



- 4 10/100 TX ports and 1 multi-mode or single-mode fiber Fast Ethernet Switch
- 3.2Gbps Switch Fabric with excellent data exchange performance
- Support 1.2KV Hi-Pot isolation protection
- Redundant power input DC 12~48V
- Aluminum case with IP-31 grade protection
- -10~70°C operating temperature for hazardous environment application

### Overview

JetNet 3005f is low cost 4 10/100 TX -port 10/100TX entry level industrial switch, equipped IP31 grade rigid aluminum case with excellent heat radiation ability. To be operated under harsh power source, JetNet 3005f is equipped with 2 power inputs in redundancy.

To provide excellent transmission performance, JetNet 3005f adopts "store and forwarding" technology with a built-in 3.2Gbps switch fabric and delivers a real non-blocking and full wire speed performance on each port.

### Plug-and-Play Switch & High-Speed Transmission

JetNet 3005 series require no user setup and immediately start operating as soon as you power them up.

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

### Redundant Power Inputs & True Reliability

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.

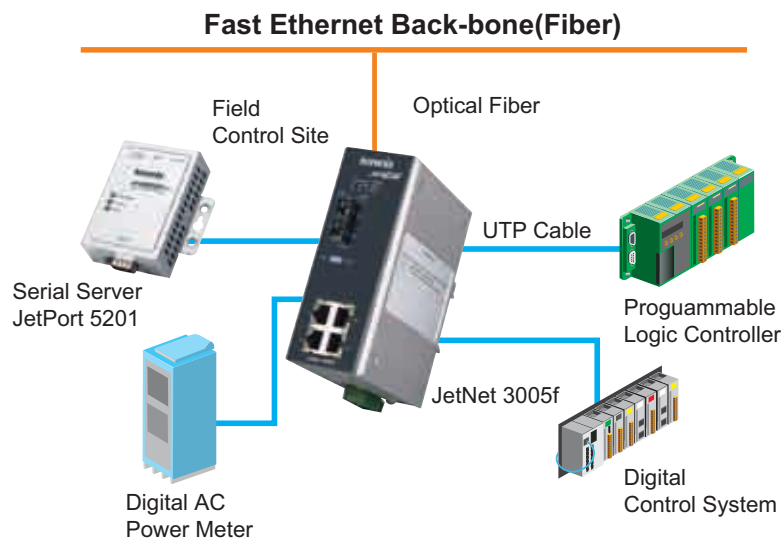
With the 1.2KV Hi-Pot isolation protection, CE/FCC regulatory approvals, and 5-year global warranty, JetNet 3005 series are your reliable choice for hazardous applications.

## ▶ Hazardous Environment Application

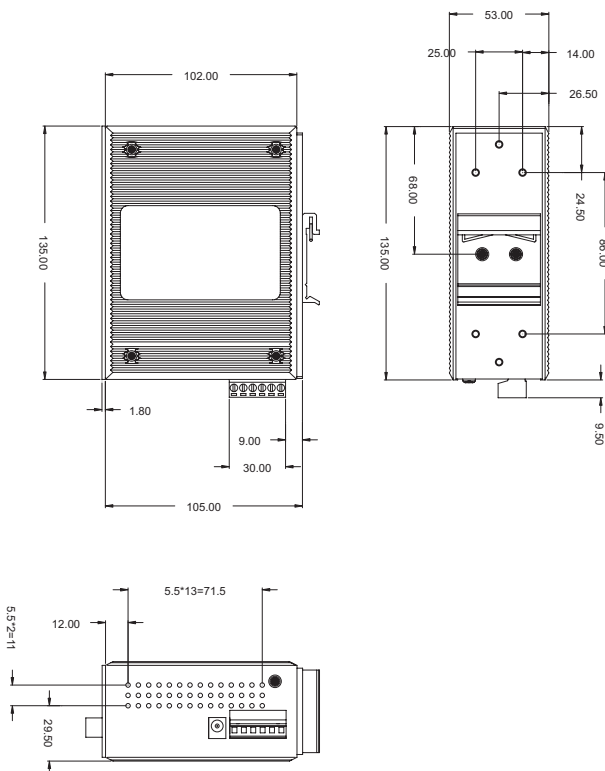
The award winning IP31 rigid aluminum flat casing and wide operation temperature range ensure reliable operation for harsh environment.

Extended operating temperature range is available for project-based request.

## ▶ Application



## ▶ Dimensions (Unit –mm)



## Specification

### Technology

#### Standard:

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

#### Switch Technology:

Store and forward technology and with 3.2Gbps switch bandwidth.

**Aggregate System Throughput:** 1.49Mpps

**MAC Address:** 1K MAC

**Packet Buffer:** 512Kbits

**Transfer performance:** 14,880pps for Ethernet and 148,800pps for Fast Ethernet and handle packet size from 64 to 1522Bytes

### Interface

#### Number of Ports:

4 x 10/10Base-TX with Auto MDI/MDI-X, Auto-Negotiation function

1 x 100Base-FX for Multi-mode or Single-mode fiber

#### Connectors:

10/100 Base-TX: RJ-45

100Base-FX: 1 x SC

Terminal Block: 6-pin for 2 x power input and 1 relay output  
DC power Jack x 1

#### Cables:

RJ-45: CAT-3, CAT-4, CAT-5 unshielded twisted pair or shielded twisted pair cable. The Link distance is 100 meters in maximum.

SC (Multi-mode): 50/125um or 62.5/125um fiber cable, available distance 2KM.

SC (Single-mode): 8/125um or 9/125um fiber cable, available distance 30KM.

#### Diagnostic LED:

Per system: Power (green) x3

Per RJ-45 port: Link (green on)/Activity(green blinking), Full duplex (Yellow on)/Collision (Yellow blinking)

### Power Requirements

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

**Input Voltage:** DC 24V (12~48V) with reverse polarity protection.

**Power Consumption:** 3.7 Watts @ DC 24V

### Mechanical

**Installation:** DIN-Rail mount or Wall Mount

**Case:** Aluminum Case with IP31 grade case protection

#### Dimension:

135mm(H) x 53mm (W) x 105mm (D) ( without DIN rail clip)

### Environmental

**Operating Temperature:** -10 ~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:** 380,973 Hours

MIL-HDBK-217F GB standard

## Ordering Information

### JetNet 3005f-m Industrial 5-Port Redundant Fast Ethernet Fiber Switch

Includes:

- JetNet 3005f-m
- Wall mounting plate and six screws
- Quick Installation Guide
- Software and Documentation CD-ROM

### JetNet 3005f-s Industrial 5-Port Redundant Fast Ethernet Fiber Switch

Includes:

- JetNet 3005f-s
- Wall mounting plate and six screws
- Quick Installation Guide
- Software and Documentation CD-ROM