

# 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

Industrial  
PoE Switch

IP67/68  
Ethernet Switch

Rackmount  
Managed  
Switch

Gigabit Switch

Redundant  
Switch

Entry-Level  
Switch

Networking  
Computer

Communication  
Computer

Ethernet  
I/O Server

Serial Device  
Server

Media  
Converter

Multipoint  
Serial Card

SFP Module

Din Rail  
Power Supply

### Overview

JetNet 3005f is low cost 5 port fast Ethernet switch, featuring an IP31 grade rigid aluminum case with excellent heat radiation ability. To be operated with dual power sources, 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 to deliver non-blocking and deliver a real non-blocking and full wire speed performance on each port.

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

JetNet 3005f requires no user setup and immediately starts operating as soon as you power them up. Excellent data transmission performance is provided

for you. No traffic will be delayed with the transmission rate up to 3.2Gbps.

### Redundant Power Inputs & True Reliability

The JetNet 3005f has dual DC24V inputs, and can also operate on 12V~48V. Dual power inputs and built-in reverse power polarity protection are designed as the redundant power system to ensure power continuity.

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

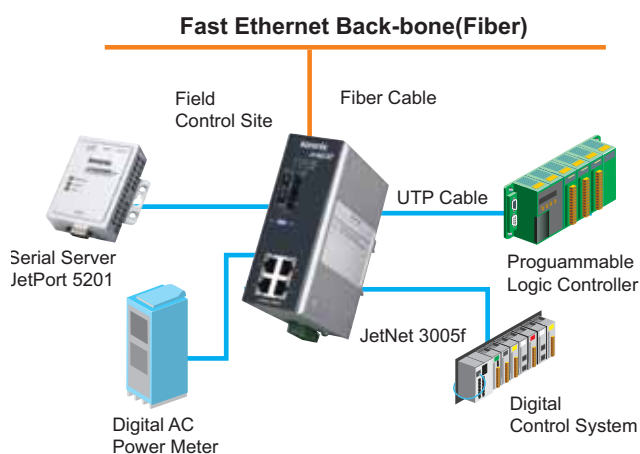
## Fault Relay Output & Hazardous Environment Application

One relay output is an important feature to let you know when there is a port link down event. Just move up the DIP switch and the fault relay alarm will be functioning!

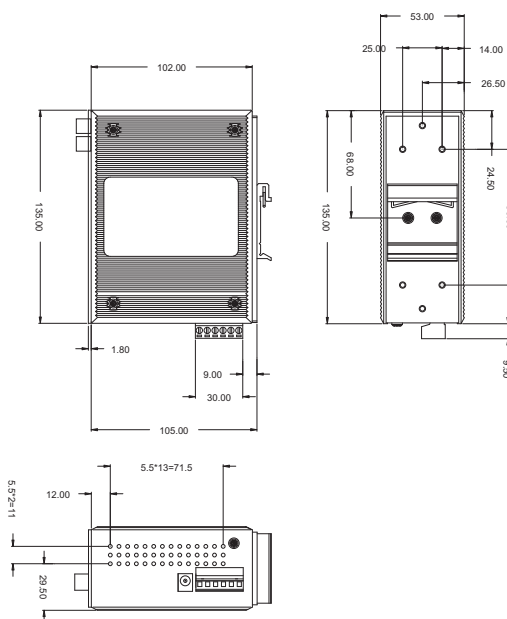
The IP31 rigid aluminum flat casing and wide operation temperature range ensure reliable operation in harsh environments.

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

## JetNet 3005f Appearance



## 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 10/100Base-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

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

#### Fiber Transceiver:

JetNet 3005f-m

Wave-length:1310nm

Tx Power:-19~-14dBm(Min.)

Rx Sensitivity:-31~-14dBm(Max.)

Link Budget:12dBm

JetNet 3005f-s

Wave-length:1310nm

Tx Power:-15~-8dBm(Min.)

Rx Sensitivity:-34~-8dBm(Max.)

Link Budget:19dBm

#### 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:** 6 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

**Warranty:** 5 years

Industrial

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Rackmount

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Multiport

Serial Card

SFP Module

Din Rail

Power Supply

## Ordering Information

### JetNet 3005f-m Industrial 5-Port Redundant Fast Ethernet Fiber Switch, 1 SC/Multi-mode, 2KM

Includes:

- JetNet 3005f-m
- Wall mounting plate and six screws
- Quick Installation Guide
- CD User manual

### JetNet 3005f-s Industrial 5-Port Redundant Fast Ethernet Fiber Switch, 1 SC/Single-mode, 30KM

Includes:

- JetNet 3005f-s
- Wall mounting plate and six screws
- Quick Installation Guide
- CD User manual