

JetNet 2005f

Industrial 5-port Compact Fast Ethernet Fiber Switch



- 4-ports 10/100 TX and 1 multi-mode or single-mode fiber compact Fast Ethernet Switch
- 3.2Gbps Switch Fabric with excellent data exchange performance
- Support 1.5KV Hi-Pot isolation protection
- Dual mode for power input, AC18-27V/DC18-32V
- Fault relay alarm
- Aluminum case with IP-31 grade protection
- -10~70°C operating temperature for hazardous environment application

Overview

Korenix JetNet 2005f is an Industrial with 4 ports 10/100Base-TX and one 100Base-FX Fast Ethernet switch. With the fiber uplink function, it enlarges the transmission distance to 2KM by multi-mode fiber (JetNet 2005f-m) or 30KM by single-mode fiber (JetNet 2005f-s).

The JetNet 2005f adopts slim and rigid aluminum case to save rail space and provides good heat radiation ability for compact system requirement.

In order to be operated under harsh environment, JetNet 2005f is equipped with IP31 grade case design to meet the requirements of drop-water and dust proof. The JetNet 2005f also provides one relay output for alarming port break events, which is enabled/ disabled by the dip switch. Moreover, JetNet 2005f has good immunity to against unstable power source and can accept AC 18~27V or DC 18~32V power input by 4-pin terminal block.

Plug-and-Play Switch & High-Speed Transmission

JetNet 2000 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.

Compact Size & Fault Relay Output

The slim-line design makes it an ideal model that would physically fit in a network environment with limited space.

One relay output is an important feature to let you

know when there is any event of port link down. Just move up the DIP switch, the fault relay alarm will be functioning!

▶ Fiber Optic Port Options for Long Distance Requirement & Dual Mode for Power Input

Single-mode and Multi-mode fiber optic ports meet your needs for long distance transmission up to 30KM.

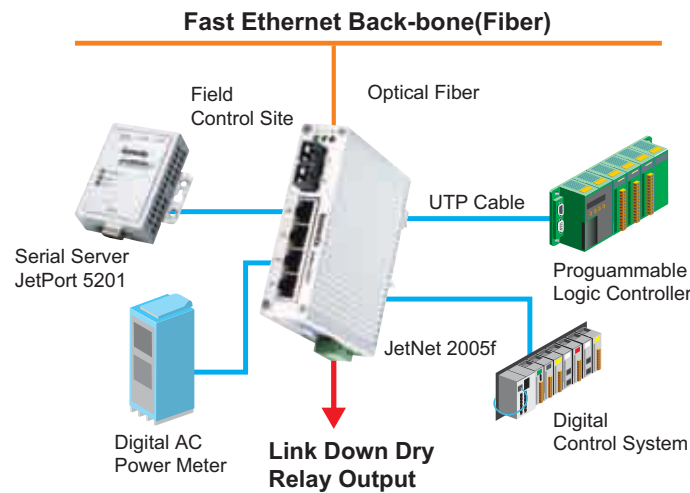
AC 18V~27V or DC 18V~32V is available for different operating environment.

▶ Easy Installation & True Reliability for The Best Support

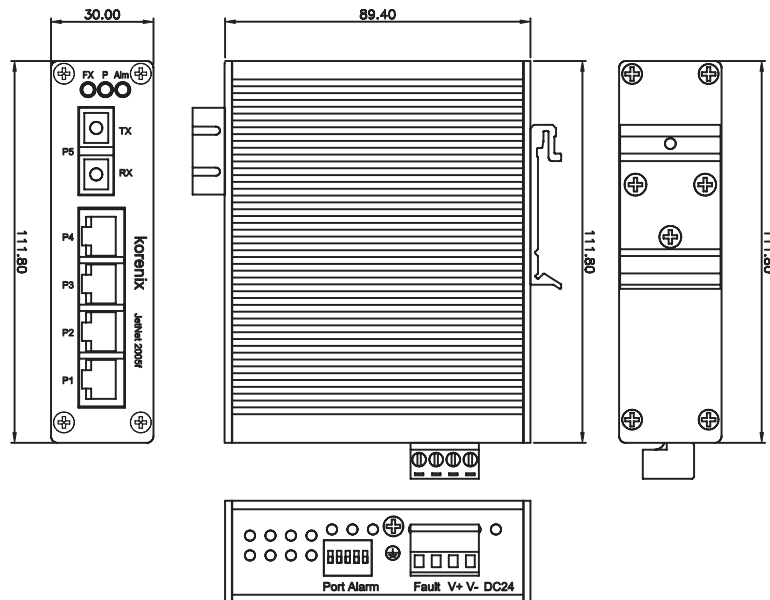
JetNet 2000 series can be easily wall mounted and be mounted directly on DIN rail.
With the 1.5KV Hi-Pot isolation protection, CE/FCC

regulatory approvals, and 5-year global warranty, JetNet 2000 series are your reliable choice for hazardous applications.

▶ Application



▶ Dimensions (Unit –mm)



Specification

Technology

Standard:

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

Switch Technology: Store and forward technology and with 3.2Gbps switch fabric

Aggregate System Throughput: 1.49Mpps

Interface

Number of Ports: 4 x 10/100 Base-TX with Auto MDI/MDI-X function, Auto-Negotiation
1 x 100Base-FX supports multi-mode or single mode fiber
Connectors: 10/100 Base-TX: RJ-45
100Base-FX: Duplex SC
Power/Relay: 4-pin terminal block

Cables:

RJ-45 connector: supports CAT-3, CAT-4, CAT-5 unshielded twisted pair or shielded twisted pair cable.
The link distance is maximum 100 meters.
Fiber: SC, multi-mode or single-mode
Multi-mode fiber:
50/125um or 62.5/125um, max. distance 2KM
Single-mode fiber: 8/125um, 9/125um or 10/125 um, max. distance 30KM

Fiber Transceiver: JetNet 2005f-m, multi-mode fiber

Link Distance: 2KM (Max.)
Wave-length: 1310nm
Min Tx Power: -19dBm
Max Tx Power: -14dBm
Min Rx Sensitivity: -30dBm
Link budget: 11dBm
JetNet 2005f-s, single-mode fiber
Link Distance: 30KM (Max.)
Wave-length: 1310nm
Max Tx Power: -8dBm
Min Tx Power: -15dBm
Min Rx Sensitivity: -34dBm
Link budget: 19dBm

Port Alarm DIP Switch:

DIP 1~5: Enable or disable port link down alarm for RJ-45 port 1~4, Fiber port 5.
On: Enable port link down alarm.
Off: Disable port link down alarm.

Diagnostic LED:

System: Power (green), Fault (red on)
RJ-45 port: 100Mbps Link (green on)/Activity(green flashing)
10Mbps Link (yellow on)/Activity(yellow flashing)

Power Requirements

System Power: 2 pins from 4-pin terminal block for DC or AC power input. DC 18~32V with reverse polarity protection. AC 18~27V, 47~63Hz

Power Consumption: 4 Watts @ DC 24V

Mechanical

Installation: DIN-Rail mount or Wall Mount

Case: Aluminum case with IP-31 protection

Dimension:

111.8mm(H) x 30mm (W) x 98.2mm (D) (with DIN rail clip)
111.8mm(H) x 30mm (W) x 89mm (D) (without DIN rail clip)

Weight:

377g with package
295g without package

Environmental

Operating Temperature: -10 ~70°C

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

Storage Temperature: -40 ~ 85 °C

Hi-Pot: 1.5KV 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: 713,506 Hours, MIL-HDBK-217F GB standard

Warranty: 5 years

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Ordering Information

JetNet 2005f-m Industrial 5-port Compact Ethernet Fiber Switch

Includes:

- JetNet 2005f-m
- Quick Installation Guide

JetNet 2005f-s Industrial 5-port Compact Ethernet Fiber Switch

Includes:

- JetNet 2005f-s
- Quick Installation Guide