

JetNet 2005f

Industrial 5-port Compact Ethernet Switch w/ One Fiber Port

- Industrial Ethernet Switch with 4 Auto-MDI/MDI-X 10/100-TX Ports and One 100-FX Fiber Port
- Slim-sized for Industrial Din-rail Application
- Support 10/100Base-TX Auto MDI/MDI-X and Auto Negotiation
- 18~27VAC or 18~32VDC Power Input by 2-pin Terminal Block
- Relay Output for Port Alarm
- Provide 1500VAC HIPOT Protection
- Aluminum Case with IP31 Protection
- DIN-Rail Mount



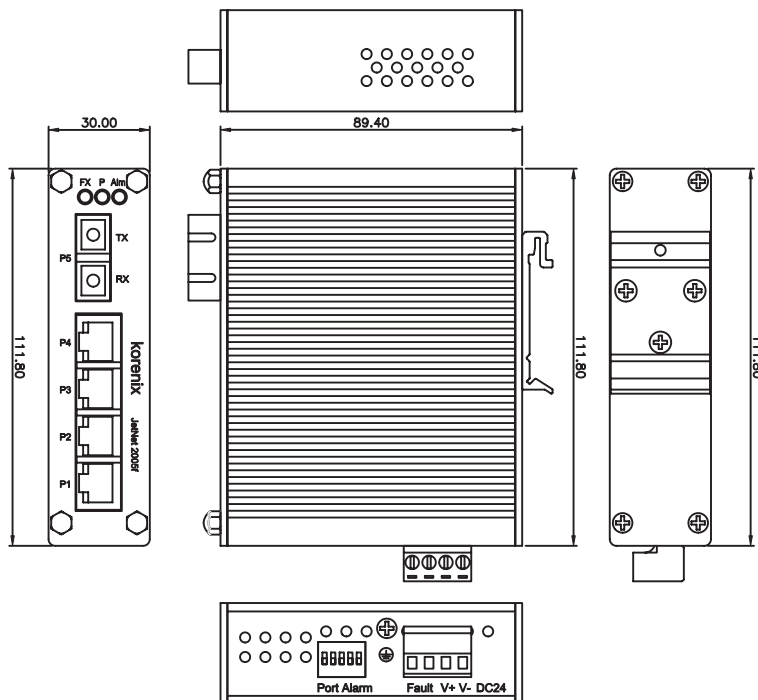
Overview

Korenix JetNet 2005f is an Industrial 4-port 10/100Base-TX / single 100Base-FX Fiber Ethernet switch. The fiber port of JetNet 2005f supports multi-mode SC with maximum 2 km transmission distance or single-mode SC with maximum 30 km transmission distance.

JetNet 2005f adopts slim industrial design to save rail space of

compact system requirement. In order to survive under harsh environment, JetNet 2005f chooses industrial-grade aluminum case with IP30 standard protection. JetNet 2005f provides one relay output to alarm port break events, which is enabled/disabled by the dip switch. JetNet 2005f is powered by 18~27VAC or 18~32VDC from the 2-pin terminal block.

Dimensions (unit=mm)



Specifications

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 1.0Gbps switch bandwidth

Aggregate System Throughput: 1.49Mpps

Interface

Number of Ports:

4 x 10/100 Base-TX with Auto MDI/MDI-X function, 1 x 100Base-FX

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.
SC connector: supports multi-mode or single-mode optical fiber.
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:

JetNet2005f-m, Multi-mode: 2KM max. distance

Wave-length: 1310nm

Min Tx Power:-19dBm

Max Tx Power:-14dBm

Min Rx Sensitivity:-30dBm

Link budget:11dBm

JetNet2005f-s, Single-mode: 30KM max. distance

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 copper 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)

RJ-45 port: 100Mbps Link (green on)/Activity(green blinking)

10Mbps Link (yellow on)/Activity(yellow blinking)

Fiber port: Link/Activity(Green)

Power Requirements

System Power:

2 pins terminal block for power input.

DC 24V(12~48V)with reverse polarity protection.AC 18~36V, 47~63Hz

Power Consumption: 5.3Watts @ DC 24V

Mechanical

Installation: DIN-Rail mount

Casing: IP-30 protection, aluminum case

Dimensions:

111.8mm(H) x 30mm (W) x 98.2mm (D) (with DIN rail clip)

111.8mm(H) x 30mm (W) x 89.4mm (D) (without DIN rail clip)

Weight:

377g with package

295g without package

Environmental

Operating Temperature: -10 to 70°C

Operating Humidity: 0% to 90% (Non-condensing)

Storage Temperature: -40 to 80°C

Storage Humidity: 0%~ 90% non-condensing

Regulatory Approvals

EMI: FCC Class A, CE/EN55022

EMC Immunity Interface:

EN61000-4-2: 6Kv Contact, 8Kv Air, ESD contact indirect 6kv

EN61000-4-3: 10V/m, 80 MHz - 1 GHz, AM 1 KHz, 80% modulation, 10V/m, 0.9 - 1.8 GHz, FM 200 Hz, 50% modulation

EN61000-4-4: PWR Supply Lines:+/- 2KV, Communication Lines:+/- 2KV

EN61000-4-5: 2KV on power line (L-N), 4KV on power line (L-PE, N-PE), 1.2uS Tr/ 50uS Th

EN61000-4-6: PWR Supply Lines:10 Vrms, 150 KHz - 80 MHz;AM 1 KHz, 80% modulation; Communication Lines:10 Vrms, 150 KHz - 80 MHz;AM 1 KHz, 80% modulation; Relay:10 Vrms, 150 KHz - 80 MHz;AM 1 KHz, 80% modulation

EN61000-4-8: 50Hz, 3A/m

EN61000-4-11: 30% 10 ms, 60% 100 ms, > 95% 5000 ms

Safety: CE/EN60950

Shock: IEC60068-2-27 shock: 50 g, 11ms, 4g, +/- X, +/- Y, +/- Z

Free Fall: IEC60068-2-32 free fall: 90 cm, 1 corner, 3 edges, 6 faces

Vibration:

IEC60068-2-6 vibration: 1 mm, 2 Hz - 13.2 Hz, 90 min.; 0.7g, 13.2 Hz - 100 Hz, 90 min.; 3.5 mm, 3 Hz - 9 Hz, 10 cycles, 1 octave/min.; 1g, 9 Hz - 150 Hz, 10 cycles, 1 octave/min

MTBF: 305,482 hours

Warranty: Global 5 years

Ordering Information

JetNet2005f-m Industrial 5-port Compact Ethernet Switch w/ One Fiber Port, SC, multi-mode/2KM

Includes:

- Industrial 5-port Compact Ethernet Switch w/ One Fiber Port, multi-mode
- Quick Installation Guide

JetNet2005f-s Industrial 5-port Compact Ethernet Switch w/ One Fiber Port, SC, single-mode/30KM

Includes:

- Industrial 5-port Compact Ethernet Switch w/ One Fiber Port, single-mode
- Quick Installation Guide