

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: IEC60068-2-32

Free Fall: IEC60068-2-32

MTBF: 713,506 Hours, MIL-HDBK-217F GB standard

Warranty: 5 years

Ordering Information

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

Includes:

- JetNet 2005f-m
- Quick Installation Guide

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- JetNet 2005f-s
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