

JetNet 2005f

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



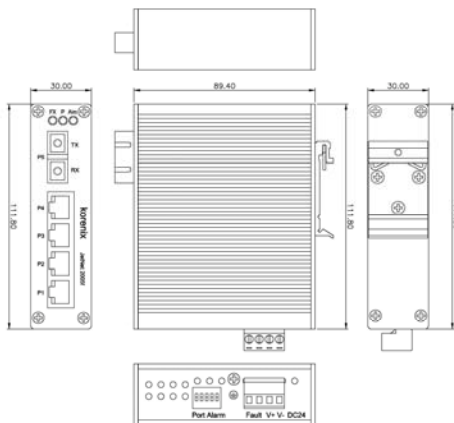
- 4-ports 10/100TX and 1 multi-mode or single-mode fiber compact Fast Ethernet Switch
- Supports 1.5KV Hi-Pot isolation protection
- Dual Mode power input (AC 18~27 /DC 18~32V)
- Relay Output for port event alarm
- Aluminum case with IP-31 grade protection, excellent heat radiation
- -40°C ~75°C Operating Temperature for hazardous environmental application. (JetNet 2005f-w)

Overview

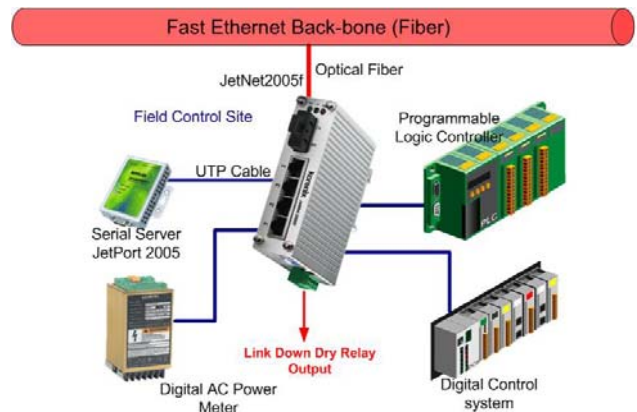
Korenix JetNet 2005f, the Industrial 4-port 10/100Base-TX plus one 100Base-FX port Fast Ethernet switch, integrates fiber uplink function to enlarge the data transmission distance up to 2KM by multi-mode fiber (JetNet2005f-m) or 30KM by single mode fiber (JetNet2005f-s).

The JetNet 2005f adopts slim and rigid aluminum case design to save rail space, and provides good heat radiation ability to meet compact system requirements. In order to withstand harsh environmental conditions, JetNet 2005f is equipped with IP31 grade case design for drop-waterproof and dustproof protection. The JetNet 2005f also provides one relay output to alarm port break events. The relay output alarm can be easily enabled/disabled by a DIP switch. Moreover, JetNet 2005f provides good immunity against unstable power source and can accept DC 18~32V or AC 18~27V power input by 4-pin terminal block.

Dimensions (Unit=mm)



Application (File Site)



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. 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 fiber Link Distance: 2KM (Max.) Wave-length: 1310nm Min Tx Power:-20dBm Max Tx Power:-14dBm Min Rx Sensitivity:0dBm Max Rx Sensitivity:-31dBm Link budget:11dBm JetNet2005f-s, single-mode Link Distance: 30KM (Max.) Wave-length:1310nm Max Tx Power:-8dBm Min Tx Power:-15dBm Max Rx Sensitivity:-34dBm Min Rx Sensitivity:-0dBm 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) 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 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	5.3 Watts @ DC 24V
Mechanical	
Installation	DIN-Rail 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	377 with package 295 without package
Environmental	
Operating Temperature	-10~70°C (regular version) -40~75°C (wide temperature version)
Operating Humidity	0 ~ 90% non-condensing
Storage Temperature	-40 ~ 80 °C
Storage Humidity	0 ~ 90% non-condensing
Regulatory Approvals	
Hi-Pot	1.2KV testing passed on port to port and port to power.
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
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
Free Fall	IEC60068-2-32 free fall: 90 cm, 1 corner, 3 edges, 6 faces

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

JetNet2005f-mw

Industrial 5-port Compact Ethernet Switch w/ One Fiber Port, **SC, multi-mode/2KM, -40~75 °C wide operating Temperature**

Includes:

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

JetNet2005f-sw

Industrial 5-port Compact Ethernet Switch w/ One Fiber Port, **SC, single mode/30KM, -40~75 °C wide operating temperature**

Includes:

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