

RPT-1005-1FM/FS-X4 | Industrial 5 Port Unmanaged Fast Ethernet Switch



FEATURE HIGHLIGHTS

- 4-port 10/100Tx Fast Ethernet
- 1-port 100Fx – SC Multi/Single
- Redundant Power Input Design, 12-48VDC
- Built-in Relay Output Warning for Power Failure
- IP30 Rugged Metal Case Design
- DIN-Rail Mounting, Wall Mounting
- Operating temperature: -10°C~65°C/-40°C~75°C

DESCRIPTION

RPT-1005-1FM/FS-X4 provides 4 fast Ethernet RJ-45 ports and 1 port 100 FX in SC connector (Multi mode and Single mode) for your industrial applications. RPT-1005-1FM/FS-X4 also supports redundant power inputs that can be connected simultaneously to wide-range DC power sources. If one of the power inputs failure, the other live source acts as a backup to provide the RPT-1005-1FM/FS-X4 power needs automatically.

RPT-1005-1FM/FS-X4 is certified CE/FCC. It comes with Fiber port options in SC connector or ST connector. Power over Ethernet version is also available to provide 30W each RJ45 port feeding to your device. For performing in extreme harsh environment, extended operating temperature version between -40 to 75 degree C is available for your alternatives.

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SPECIFICATIONS

Technology	
Standards	IEEE 802.3 10BaseT Ethernet
	IEEE 802.3u 100BaseTX Fast Ethernet
Processing Type	Store and Forward
Protocol	CSMA/CD
Flow Control	IEEE 802.3x flow control, back pressure flow control
Switch Properties	
Switch Architecture	Back-Plane: Non-Blocking Switching Fabric
Transfer Rate	14,880pps for Ethernet Port
	148,800pps for Fast Ethernet Port
Memory Buffer	448Kbits
MAC Table size	2K
Interface	
RJ45 Ports	4*10/100BaseT(X), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
Fiber Port	1*100Fx SC/ST type connector
	Multi-mode (2Km) - 50/125um or 62.5/125um, Single-mode (30Km) - 9/125um or 10/125um
LED Indicators	Power 1, Power 2, Fault
	Ethernet Ports: On-Link/Flash-data transmitting Fiber Ports: On-Link/Flash-data transmitting
Wavelength	1310nm
Network Cable	10BaseT: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m)
	100BaseTX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m)
Power Requirements	
Input Voltage	12-48VDC, Redundant Input
Overload Current Protection	Present(Slow-Blow Fuse)
Power Connection	1 removable 6-contact terminal block
Reverse Polarity Protection	Present
Power Consumption	5 Watts
Relay Contact	24VDC, 1A resistive

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Mechanical Characteristics	
Housing	Metal, IP30 protection
Dimensions	30 x 142 x 99 mm (W x H x D)
Weight	Unit Weight: 0.5kg, Shipping Weight: 0.7kg
Mounting	DIN-Rail Mounting, Wall Mounting
Environmental Limits	
Operating Temperature	Standard: -10°C ~ 65°C (14°F ~ 149°F) Extend: -40°C ~ 75°C (-40°F ~ 167°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 to 95%, (non-condensing)
Regulatory Approvals	
EMI	FCC Part 15 Subpart B Class A, CE EN 55022 Class A
EMS	IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-4 (EFT), IEC61000-4-5 (Surge)
	IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
MTBF	1721367 hours

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ORDERING INFORMATION

Model name	Description
RPT-1005-1FM-SC-X4	4 port 10/100 TX and 1 port FX SC Multi Mode 2KM. -10~65°C
RPT-1005-1FM-SC-T-X4	4 port 10/100TX and 1 port FX SC Multi Mode 2KM . -40~75°C
RPT-1005-1FS-SC-X4	4 port 10/100 TX and 1 port FX SC Single Mode 30KM. -10~65°C
RPT-1005-1FS-SC-T-X4	4 port 10/100TX and 1 port FX SC Single Mode 30KM . -40~75°C

DIMENSIONS

Unit: mm

