



FEATURE HIGHLIGHTS

- 16 port 10/100/1000 Tx Gigabit Ethernet
- 4 port 100/1000 SFP Slots
- Redundant Power Input Design
- 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-1020G-4F-X4 provides 16 10/100/1000 TX Gigabit Ethernet RJ-45 ports and 4 100/1000 SFP slots for your industrial applications. RPT-1020G-4F-X4 also supports redundant power inputs that can be connected simultaneously and back up for power feeding to the switch.

RPT-1020G-4F-X4 is certified CE/FCC and UL61010. For performing in extreme harsh environment, standard operating temperature is -10 to 65 degree and extended operating temperature version between -40 to 75 degree C.

For SFP modules, you can choose from Sbjlink SFP selection guide with different distances. Please check <https://www.sbjlink.com/index.php>

SPECIFICATIONS

Technology

Standards	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX Fast Ethernet
	IEEE 802.3ab 1000Base TX Gigabit Ethernet
	IEEE 802.3z 1000Base-X Gigabit Fiber
Processing Type	Store and Forward
Protocol	CSMA/CD
Flow Control	IEEE 802.3x flow control, back pressure flow control

Switch Properties

Switching Fabric (Back-Plane)	40Gbps
Memory Buffer	4Mbits
MAC Table Size	8K
Jumbo Frame	9.6Kbytes
Transfer Rate	14,880pps for Ethernet port
	148,800pps for Fast Ethernet port
	1488,000pps for Gigabit Ethernet port

Interface

RJ45 Ports	16*10/100/1000 Base-T(X) Auto-Negotiation, Full/Half Duplex, Auto-MDI/MDI-X
Fiber Port	4*100/1000 SFP slots
Wavelength	Depends on SFP modules
LED Indicators	System: Power 1, Power 2, Fault
	Ethernet ports: On-Link/Flash-data transmitting
	SFP: Link/Active
Relay Contact	24 VDC, 1A resistive
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m)
	100Base-TX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m)
	1000Base-TX: 4-pair UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)

Power Requirements

Input Voltage	Dual 12-48VDC redundant power inputs
Power Connection	1 removable 6-contact terminal block
Overload Current Protection	Present (Slow-Blow Fuse)
Reverse Polarity Protection	Present
System Power Consumption	Max. 16.5W full loading

SPECIFICATIONS

Mechanical Characteristics	
Housing	Metal, IP30 protection
Dimensions (W x H x D)	67 x 142 x 99 mm (2.6x 5.6 x 3.9 inch)
Weight	Unit weight: 1.188kg, Shipping weight: 1.47kg
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 EN55022
EMS	CE EN55024
	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
Safety	UL61010-1, UL61010-2-201
MTBF (Telcordia SR-332, Issue 3, GB, 25°C)	660,534 hrs.

ORDERING INFORMATION

Model name	Description
RPT-1020G-4F-X4	16 Port 10/100/1000 TX + 4 100/1000 SFP ports, 12-48VDC, -10~65°C
RPT-1020G-4F-T-X4	16 Port 10/100/1000 TX + 4 100/1000 SFP ports, 12-48VDC, -40~75°C

DIMENSIONS

Unit: mm

