



### FEATURE HIGHLIGHTS

- 8-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-1012G-4F-X4 provides 8 10/100/1000 TX Gigabit Ethernet RJ-45 ports and 4 100/1000 SFP slots for your industrial applications. RPT-1012G-4F-X4 also supports redundant power inputs that can be connected simultaneously and back up for power feeding to the switch.

RPT-1012G-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)	24Gbps
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	10*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. 12W full loading

## SPECIFICATIONS

Mechanical Characteristics	
Housing	Metal, IP30 protection
Dimensions (W x H x D)	46 x 142 x 99 mm (1.8 x 5.6 x 3.9 inch)
Weight	Unit weight: 1.36kg, Shipping weight: 1.56kg
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)	846,802 hrs.

## ORDERING INFORMATION

Model name	Description
RPT-1012G-4F-X4	8 Port 10/100/1000 TX + 4 100/1000 SFP ports, 12-48VDC, -10~65°C
RPT-1012G-4F-T-X4	8 Port 10/100/1000 TX + 4 100/1000 SFP ports, 12-48VDC, -40~75°C

## DIMENSIONS

Unit: mm

