

RPT-1810P-2C-X4 | Industrial 10 Port FE POE Booster Switch with Combo Port



FEATURE HIGHLIGHTS

- 8-port 10/100Tx Ethernet with PoE+
- 2-Giga Combo ports (2*10/100/1000TX + 2100/1000 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-1810P-2C-X4 provides 8 10/100 TX Fast Ethernet RJ-45 ports with IEEE 802.3at compliant PoE + function and 2 Giga Combo ports (2 10/100/1000 TX and 2 100/1000 SFP slots) for your industrial applications. RPT-1010P-2C-X4 also supports 12V-55VDC booster for PoE + function and redundant power inputs that can be connected simultaneously and back up for power feeding to the switch.

RPT-1810P-2C-X4 is certified CE/FCC and UL61010. NEMA-TS 2 is compliant for its extended temperature version. 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 distance. Please check <https://www.sbjlink.com/index.php>

SPECIFICATIONS

Technology	
Standards	IEEE 802.3 10BaseT Ethernet
	IEEE 802.3u 100BaseTX Fast Ethernet
	IEEE 802.3ab 1000BaseT
	IEEE 802.3z 1000Base-X Gigabit Fiber
	IEEE 802.3af/at Power over Ethernet
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)	5.6Gbps
Memory Buffer	4Mbits
MAC Table Size	8K
Jumbo Frame	9.6Kbytes
Transfer Rate	14,880pps for Ethernet Port
	148,800pps for Fast Ethernet Port
	1,488,000pps for Gigabit Ethernet Port
Interface	
RJ45 Ports	8*10/100 Base-T(X) with 8* PoE+ Auto-Negotiation, Full/Half Duplex Auto-MDI/MDI-X
PoE Pin Out	V+, V+, V-, V-, for pin 1, 2, 3, 6 (Endspan, MDI Alternative A)
Gigabit Combo Port (Copper/SFP)	2*RJ45 Ports w/10/100/1000Tx Ethernet and 2*100/1000 SFP Slot
Wavelength	Depends on SFP modules
LED Indicators	System: Power 1, Power 2, Fault
	Ethernet ports: On-Link/Flash-data transmitting
	SFP: Link/Active
	PoE: On-connected to PD devices
Relay Contact	24 VDC, 1A resistive
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)
	1000BaseTX: UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)

SPECIFICATIONS

Power Requirements	
Input Voltage	Dual 12-55VDC 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
PoE Power Output	30Watts max. per PoE port
Max. PoE Power Budget	60Watts/12VDC, 200Watts/36-55VDC
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: 0.866kg (1.91lb), Shipping weight: 1.05kg (2.31lb)
Mounting	DIN-Rail Mounting, Wall Mounting
Environmental Limits	
Operating Temperature	Standard: -10°C ~ 65°C (14°F ~ 149°F) Extended: -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 EN55032/EN61000-6-4 Class A
EMS	CE EN55035/EN61000-6-2 Class A: 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, ISA 12.12.01
Compliance	NEMA TS2 (ITS) (apply by request)
MTBF (Telcordia SR-332, Issue 3, GB, 25°C)	545,971 hrs.

RPT-1810P-2C-X4 | Industrial 10 Port FE POE Booster Switch with Combo Ports

ORDERING INFORMATION

Model name	Description
RPT-1810P-2C-X4	8 Port 10/100 TX (30W/port) + 2 GE/SFP ports, 12-55VDC, -10~65°C
RPT-1810P-2C-T-X4	8 Port 10/100 TX (30W/port) + 2 GE/SFP ports, 12-55VDC, -40~75°C

DIMENSIONS

