

# RPT-2012XP-4F-T-X2 | Industrial 12 Port L2/L3 PoE switch with 10G Uplink



## FEATURE HIGHLIGHTS

- 8x Gigabit Ethernet ports, PoE 30W per port
- 4x 1/10 Gigabit Ethernet SFP+ Slot
- RSTP, MSTP, ERPS, LACP for Network Redundancy
- QoS CoS/DSCP to increase determinism
- Supports IGMP Snooping v1/v2/v3, up to 512 groups
- DHCP Relay Option 82 for IP address assignment
- Supports Layer 3 Routing functions (RPT-3012XP-4F-T)
- USB storage for configuration-free replacement
- PoE live check to support power management

## DESCRIPTION

RPT-2012XP-4F-T with 8 RJ-45 gigabit PoE 30W ports and 4 10 Gigabit SFP+ ports for the demand of high bandwidth data processing in your industrial applications. It designs to work in the industrial environment, such as in hazardous locations that comply with CE, FCC, EN50121-4 and operating in wide temperature between -40 to 75 degree C.

RPT-2012XP-4F-T provide superior security software feature sets, ie Radius, TACACS+, SSH, SSL and network redundancy such as RSTP, MSTP, G.8032 ERPSv2.

For industrial automation application, industrial protocols Ethernet/IP and Modbus TCP could be handled via this particular switch for connecting PLC network. Time synchronization is also provided by IEEE1588v2. The wide temperature and redundant dual power input increase its reliability to function in the industrial environment.

RPT-2012XP-4F-T series also has also L3 routing software version, RPT-3012XP-4F-T. RPT-3012XP-4F-T is a standard L3 8 port gigabit PoE 30W and 4 10 Gigabit SFP+ port industrial switch. RPT-3012XP-4F-T supports additional Layer 3 routing features like static routing, RIP v1/v2, OSPF and VRRP.

## SPECIFICATIONS

Technology	
Standards	IEEE 802.3 10BaseT
	IEEE 802.3u 100BaseTX
	IEEE 802.3ab 1000BaseT
	IEEE 802.3ae 10GBase over Fiber
	IEEE 802.3x Flow Control
	IEEE 802.3af/at
	IEEE 802.3 az Energy Efficient Ethernet
	IEEE 802.3ad/802.1AX LACP
	IEEE 802.1D Spanning Tree Protocol
	IEEE 802.1w Rapid STP
	IEEE 802.1s Multiple STP
	ITU-T G.8032 / Y.1344 ERPS
	IEEE 802.1Q VLAN Tagging
	IEEE 802.1ad Stacked VLANs
	IEEE 802.1p Class of Service
	IEEE 802.1X Network Authentication
IEEE 802.1AB LLDP	
IEEE 1588 PTP	
Processing Type	Store and Forward
Switch Properties	
Switch Fabric	96Gbps
Priority Queues	8 Queues
Jumbo Frame	9216bytes
MAC Table Size	16K
Packet Buffer	12Mbits
VLAN Table Size	4094
IGMP Group	512
ACL Group	512
VLAN IP Entries	64
L3 Routing Entries (IPv4/IPv6) RPT-3012X/XP-4F	512/256 host, 64/64 LPM

## SPECIFICATIONS

### Software Feature

Network Redundancy	RSTP, MSTP, G.8032 ERPSv2, Port Trunking with LACP
Security	802.1X, RADIUS, TACACS+, SSL, SSH
Management	IPv4, IPv6, Web, Telnet, Serial Console, CLI, SNMP v1/v2c/v3, uPnP
Diagnostics	RMON, SNMP Inform/Trap, Syslog, SMTP, Port Mirroring, LLDP
Configuration	DHCP Server/Client, Relay Option 82, TFTP, USB
Filter	802.1Q VLAN, Q-in-Q, IGMP Snooping v1/v2/v3, IGMP Querier, Independent Vlan Learning
Time Sync.	NTP, IEEE1588v2 OC (Software Timestamp), TC (Hardware Timestamp)
QoS	CoS, DSCP, WRR/SPQ Queuing, Storm Protection
Industrial Profiles	Ethernet/IP, Modbus TCP
PoE	Powering status, PoE monitoring, scheduling, PD alive check
L3 Switching (RPT-3012X/XP-4F-T)	Static Routing, RIP v1/v2, RIPng, OSPF v2, OSPF v3, VRRP v2

### Interface

RJ45 Port	8x 10/100/1000T(x), auto negotiation speed duplex mode, auto MDI/MDI-X. 8 Port PoE 30W IEEE802.3af/at.
Fiber Port	4x 1/10 Gigabit Ethernet SFP+ Slot
LED Indicators	Per unit: PWR1, PWR2, Fault, Ring Master, Ring State
	Ports: Link/Active with highest speed(Green), low speed(Amber)
	PoE: Output power
Alarm Contact	1x relay output with current carrying capacity of 1A @ 24 VDC
Digital Inputs	1x isolated input from the electronics.
	+13 to +30V for state "1"
	-30 to +3V for state "0"
Button	Multiple functions reset button
Serial Console	1x RS232 in RJ45 connector with console cable, 115.2Kbps, 8N1
Storage	1x USB 2.0 storage for firmware update, configuration backup, restore, boot up and syslog

## SPECIFICATIONS

### Power Requirements

Operation Voltage	48-57VDC, redundant dual inputs
Connection	1x removable 4-contact terminal block
Power Consumption	<a href="#">0.32A@48VDC</a> without PDs' consumption
PoE power budget	Max 240W total. Max 30W per port.
Protection	Overload Current Protected, Reverse Polarity Protected

### Mechanical Construction

Enclosure	Aluminum
Protection Class	IP30
Dimensions	72x145x118 mm (WxHxD)
Weight	0.90 kg
Mounting	DIN-Rail Mounting, Optional Wall Mounting Kits

### Environmental Limits

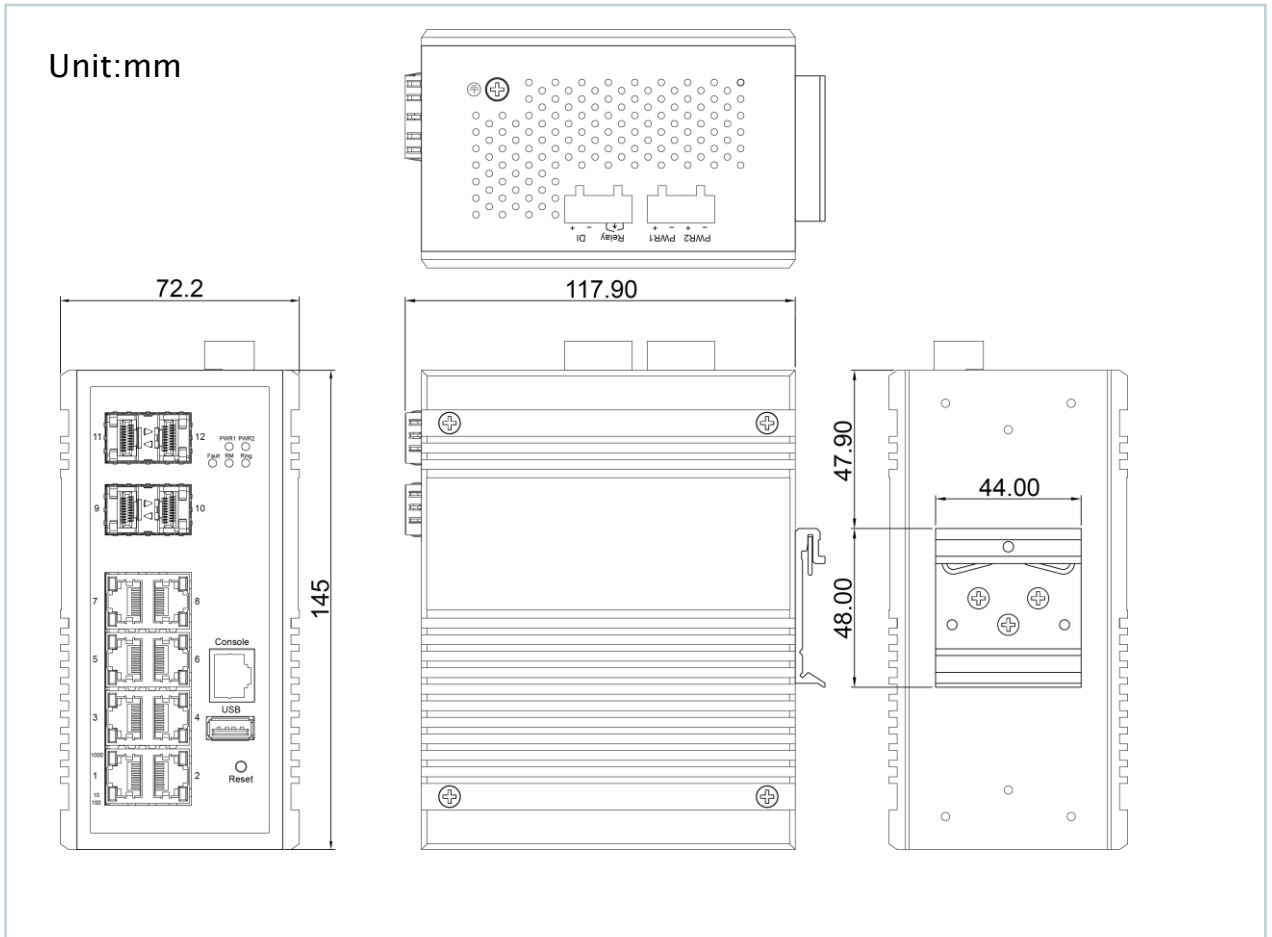
Operating Temperature	Extended: -40°C ~ 75°C (-40°F ~ 167°F)
	For 10G SFP+: -40 ~ 60°C (32°F ~ 140°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 to 95%, (Non-Condensing)

### Regulatory Approvals

EMI	CE EN 55032 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
Certifications	IEC 61000-6-2
	IEC 61000-6-4
	EN 50121-4
MTBF	>100,000 hours
Warranty	5 Years

# RPT-2012XP-4F-T | Industrial 12 Port L2/L3 PoE Switch with 10G Uplink

## DIMENSIONS



## ORDERING INFORMATION

Model Name	Software (L2/L3)	10/100/1000 TX	10G SFP +	Power input
RPT-2012XP-4F-T-X2	L2 Only	8 (30W/ea)	4	48-57VDC redundant
RPT-3012XP-4F-T-X2	L3/L2	8 (30W/ea)	4	48-57VDC redundant
RPT-2012X-4F-T-X2	L2 Only	8	4	12-48VDC redundant
RPT-3012X-4F-T-X2	L3/L2	8	4	12-48VDC redundant