

RPT-2012GP-4F-X4 | Industrial 12 Port L2 Gigabit POE Switch



FEATURE HIGHLIGHTS

- 8-port 10/100/1000Base-T(X) Ethernet with IEEE 802.3af/at compliant PoE, 30W/port
- 4-port dual rate 100/1000Base-(F)X SFP slots
- PoE ping alarm function for PoE ports power recycle
- Network Redundancy: G.8032 ERPSv2, STP, RSTP, MSTP
- Supports IEEE802.1p QoS and LACP
- Supports IEEE802.1Q VLAN, SNMP v1/v2c/v3, ACL, IP source guard, Radius and TACACS+ for security
- Redundant Power Inputs, 48-55VDC or 12-55VDC
- Operating Temperature Extended -40°C ~ 75°C, optional

DESCRIPTION

RPT-2012GP-4F-X4 has 8 RJ-45 gigabit POE ports with 30W per port and 4 100/1000 FX SFP slots for your industrial applications. It designs to work in the industrial environment, such as in hazardous locations that comply with CE, FCC, UL61010. Power input and operating temperature is standard 48-55VDC and -10 to 65 degree C and optional for users to choose 12-55VDC wide power input and extended temperature version between -40 to 75 degree C.

RPT-2012GP-4F-X4 series provides comprehensive network security and management capability by supporting Multiusers account, IGMP, GVRP, VLAN, QoS, SNMP, RADIUS, TACACS+, Aggregation(Static, LACP), SSH, SSL, IP source guard to create a highly-secured network environment. It also supports PoE ping alarm function allows users to reboot the powered device remotely when it suffered a malfunction. For power saving purpose, assuring PD priority and enhancing security level of the network, it supports PoE scheduling and PoE output limit function to set up PoE output duration and watt.

SPECIFICATIONS

Technology

Standards	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX and 100Base-FX Fast Ethernet
	IEEE 802.3ab 1000Base-T Gigabit Ethernet
	IEEE 802.3z 1000Base-X Gigabit Fiber
	IEEE 802.3af/at Power over Ethernet
	IEEE 802.3x Flow Control
	IEEE 802.1d STP (Spanning Tree Protocol)
	IEEE 802.1w RSTP (Rapid Spanning Tree Protocol)
	IEEE 802.1s MSTP (Multiple Spanning Tree Protocol)
	ITU-T G.8032 / Y.1344 ERPS v1/v2(Ethernet Ring Protection Switch)
	IEEE 802.1Q Virtual Local Area Network (VLAN)
	IEEE 802.1p QoS/CoS Protocol for Traffic Prioritization
	IEEE 802.1X Network Authentication
	IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
IEEE 802.3ad Link Aggregation (LACP)	
Processing Type	Store and Forward
Flow Control	IEEE 802.3x flow control, back pressure flow control
Network Management	
Management	IPv4/IPv6, SNMP v1/v2c/v3, LLDP, LLDP-MED, HTTP, HTTPS, SSHv2 telnet, DHCP client, DHCPv6 client, DHCP server, Port Mirror, DNS client/proxy, IP based Access Filter, ICMPv6, syslog, Time Zone /Daylight Saving, NTP client, RMON, sFlow, Loop detection, Console Port, Power lost warning, relay trigger
Security	Port-based/Single/Multi 802.1X, ACL(Port/Rate Limiters/ACE), MAC-based Authentication, VLAN assignment, QoS Assignment, Private VLAN, Guest VLAN, RADIUS accounting, TACACS+, IP MAC binding, WEB/CLI authentication, Authorization (15 levels), Port Security Limit Control, ACLs for filtering/policing/port copy, IP source guard, ARP Inspection
L2 Switching	Port/MAC/Protocol/IP Subnet-based VLAN, GARP/GVRP, Loop Guard, Link Aggregation static/LACP, BPDU guard, Error disable recovery, IGMP snooping v2/v3, MLD snooping v1/v2, IGMP filtering, IPMC throttling / filtering leave proxy, DHCP snooping, G.8032 v1/v2
L3 Switching	DHCP option82, IP route
QoS	802.1p Queueing, Input priority mapping, Storm control for Unicast/Multicast/Broadcast, Port/Queue/ACL policer, Port egress shaper, Queue egress shaper, DiffServ (DSCP), Tag remarking, Scheduler mode

SPECIFICATIONS

Power Saving	ActiPHY, PerfectReach, IEEE 802.3az EEE power management
Network Redundancy	STP/RSTP/MSTP, port trunk with LACP, ERPS v1/v2(<50ms)
Configuration	Http, Https, Telnet, SSH, CLI, TFTP, SNMP v3
PoE	POE/POE+ port power allocation, Power budget protection, PoE output scheduled, PoE alive check and remote reboot PD device
System / Diagnostics	Dual Image Protection, PING, PING6
Switch Properties	
Back-Plane (Switching Fabric)	24Gbps
Priority Queues	8
Max. Number of VLANs	4095
VLAN ID Range	VID 1 to 4095
Memory Buffer	4Mbits
Jumbo Frame	9.6Kbytes
MAC Table Size	8K
IGMP Group	1024
Transfer Rate	14,880pps for Ethernet port
	148,800pps for Fast Ethernet port
	1,488,000pps for Gigabit Ethernet port
Interface	
RJ45 Ports	8*10/100/1000Base-T(X) with PoE+, auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
PoE Pin Out	V+, V+, V-, V-, for pin 1, 2, 3, 6 (End-span, Mode A)
Fiber Port	4*100/1000Base-(F)X SFP slots
Wavelength	Depends on SFP modules
LED Indicators	System: Power 1, Power 2, Master, Ring, Fault
	Ethernet ports: Speed/Link/Active
	PoE: On-connected to PD devices
	SFP: Link/Active
RS232 Serial Console	1*RS232 in RJ45 connector with console cable, baud rate 115,200bps,8,N,1
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-T: 4-pair UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)
	Optical Cable

RPT-2012GP-4F-X4

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SPECIFICATIONS

Power Requirements

Input Voltage	RPT-2012GP-4F(-T)-X4: dual 48-55VDC redundant power RPT-2812GP-4F(-T)-X4: dual 12-55VDC redundant power
Power Connection	1 removable 6-contact terminal block
Overload Current Protection	Present (Slow-Blow Fuse)
Reverse Polarity Protection	Present
System Power Consumption	Max. 15W full loading
Max. PoE Power Budget	RPT-2012GP-4F(-T)-X4: 180W@48-55VDC RPT-2812GP-4F(-T)-X4: 90W@12VDC, 180W@48-55VDC
PoE Power Output	30W max. per PoE port

Mechanical Characteristics

Housing	Metal, IP30 protection
Dimensions (W x H x D)	54 x 142 x 99 mm (2.13 x 5.59 x 3.9 inch)
Weight	RPT-2012GP-4F(-T)-X4: 0.99kg/shipping 1.35kg RPT-2812GP-4F(T)-X4: 0.95kg /Shipping: 1.35kg
Mounting	DIN-Rail Mounting, Wall Mounting

Environmental Limits

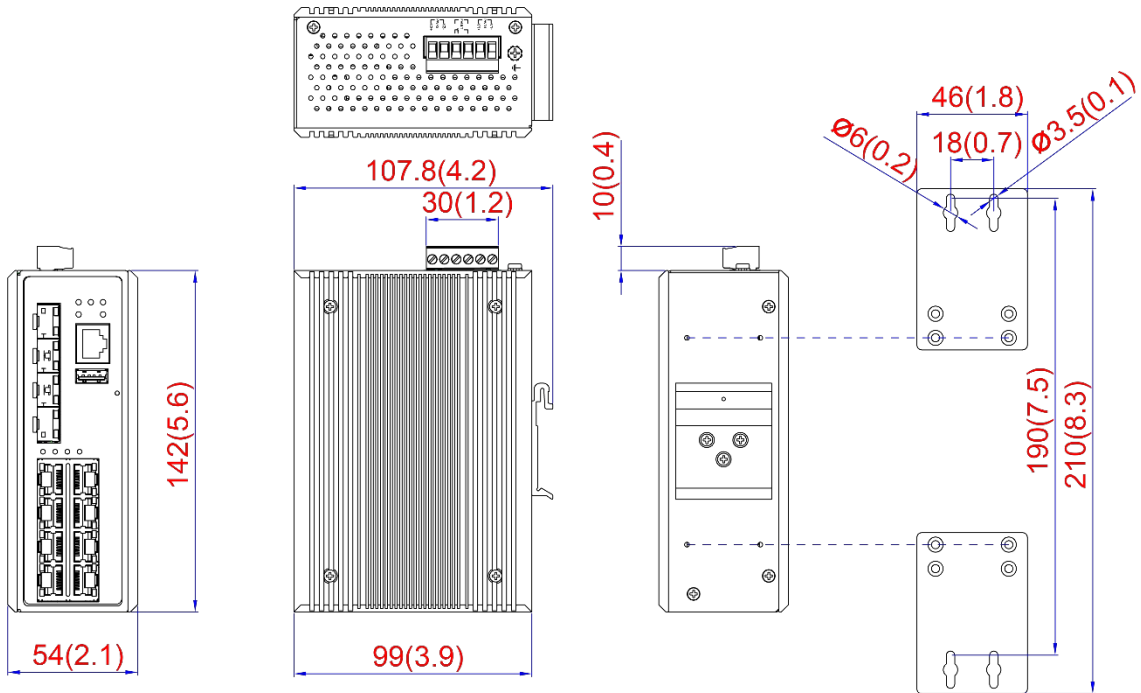
Operating Temperature	Standard: -10°C ~ 65°C; Extend: -40°C ~ 75°C
Storage Temperature	-40°C ~ 85°C (-40°C ~ 185°F)
Ambient Relative Humidity	5 to 95%, (non-condensing)

Regulatory Approvals

EMI	FCC Part 15 Subpart B Class A, CE EN55022/EN61000-6-4 Class A
EMS	CE EN55024/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 C1D2, ATEX Zone 2 Ex nA nC IIC T4 GC
Compliance	NEMA TS2 (ITS)-Extend version (RPT-2812GP-4F(-T)-X4 Series only)
MTBF (Telcordia SR-332, Issue 3, GB, 25°C)	RPT-2012GP-4F-X4: 433,903 hrs. RPT-2812GP-4F-X4: 420,958 hrs.

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DIMENSIONS



Unit: mm (inch)

Din-rail

Wall-mount

ORDERING INFORMATION

Model Name	Software	10/100/1000 TX	100/1000 FX SFP	Operating Temperature	Power input
RPT-2012GP-4F-X4	L2	8 (30W/ea)	4	-10°C ~ 65°C	48-55VDC redundant
RPT-2012GP-4F-T-X4	L2	8 (30W/ea)	4	-40°C ~ 75°C	48-55VDC redundant
RPT-2812GP-4F-X4	L2	8 (30W/ea)	4	-10°C ~ 65°C	12-55VDC redundant
RPT-2812GP-4F-T-X4	L2	8 (30W/ea)	4	-40°C ~ 75°C	12-55VDC redundant