

# RPT-2012G-2F-X4 | Industrial 12 Port L2 Gigabit Ethernet Switch



## FEATURE HIGHLIGHTS

- 10-port 10/100/1000Base-T(X) Ethernet
- 2-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
- Operating temperature range  
-10°C ~ 65°C or extended -40°C ~ 75°C (-T)

## DESCRIPTION

RPT-2012G-2F-X4 has 10 RJ-45 gigabit ethernet ports and 2 100/1000 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. Power input and operating temperature is standard 12-48VDC and -10 to 65 degree C and optional for users to choose extended temperature version between -40 to 75 degree C.

RPT-2012G-2F-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.

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## 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 802.3x 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

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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
System / Diagnostics	Dual Image Protection, PING, PING6
<b>Switch Properties</b>	
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
<b>Interface</b>	
RJ45 Ports	10* 10/100/1000Base-T(X), 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	2*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 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

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### Power Requirements

Input Voltage	Dual 12-48VDC 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-2F(-T)-X4: 240W@48-55VDC
	RPT-2812GP-2F(-T)-X4: 90W@12VDC, 180W@24DC, 240W@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	0.9kg/shipping 1.3kg
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)

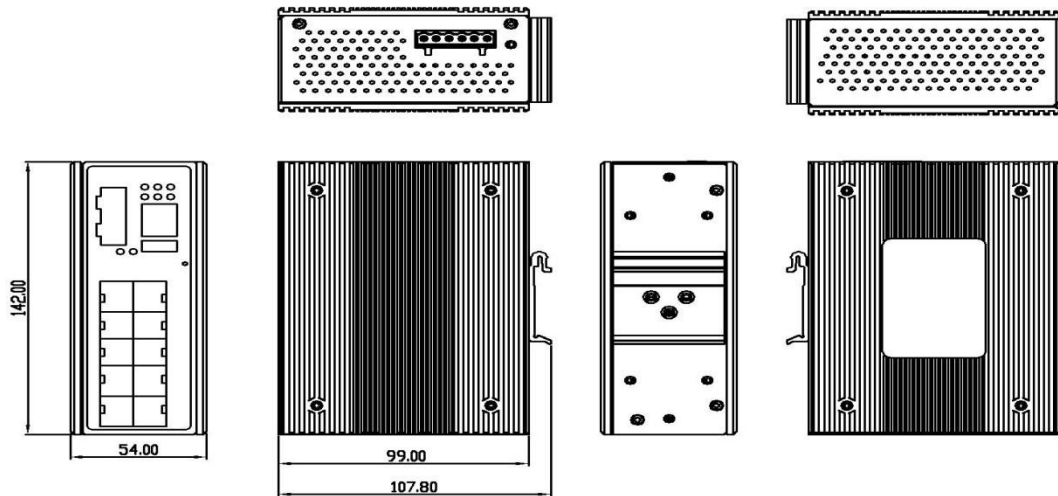
### Regulatory Approvals

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 Temperature version RPT-2012G-2F-T-X4
MTBF (Telcordia SR-332, Issue 3, GB, 25°C)	570,911 hrs.

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## DIMENSIONS

Unit: mm



## ORDERING INFORMATION

Model Name	Software	10/100/1000 TX	100/1000 FX SFP	Operating Temperature	Power input
RPT-2012G-2F-X4	L2	10	2	-10°C ~ 65°C	12-48VDC redundant
RPT-2012G-2F-T-X4	L2	10	2	-40°C ~ 75°C	12-48VDC redundant