



# RPT-2807GH-2F-X4 | Industrial 7 Port L2 Gigabit PoE++ Switch

## SPECIFICATIONS

Technology	
Standards	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX Fast Ethernet
	IEEE 802.3ab 1000Base-T
	IEEE 802.3z 1000Base-X Gigabit Fiber
	IEEE 802.3af/at/bt 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, USB configuration backup/restore, 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, IGMPv2/v3 snooping, MLD snooping v1/v2, IGMP filtering, IPMC throttling / filtering leave proxy, DHCP snooping, G.8032 v1/v2
L3 Switching	DHCP option82, static routes

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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
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+/PoE++ PoE port power allocation, Power budget protection, PoE output scheduled, PoE alive check and persistent PoE
System / Diagnostics	Dual Image Protection, PING, PING6
<b>Switch Properties</b>	
Switching Fabric (Back-Plane)	14Gbps
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	4*10/100/1000 Base-T(X) with 4*PoE-PSE(90W/Port) + 1*10/100/1000Base-TX
	Auto-Negotiation, Full/Half Duplex, Auto-MDI/MDI-X
PoE Pin Out	V-, V-, V+, V+, for pin 1, 2, 3, 6
	V+, V+, V-, V- for pin 4, 5, 7, 8
	Support modes: Mode A, Mode B, 4-Pair mode
Fiber Port	2*100/1000 SFP slots
Wavelength	Depends on SFP modules
LED Indicators	System: Power 1, Power 2, Master (M), Ring (R), Status, PoE Load (P/L)
	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

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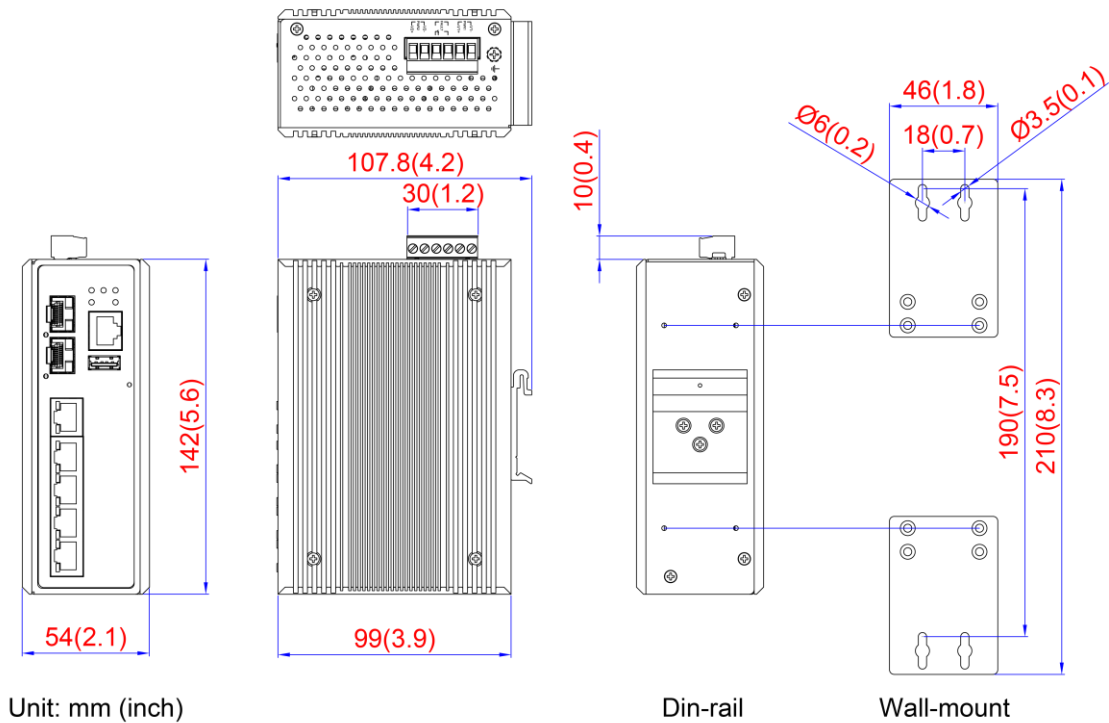
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Configuration Backup	1*USB 2.0 host (type-A) for configuration backup/store
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m)
	100Base-TX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m)
	1000Base-TX: 4-pair UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)
Optical Cable	Multi-mode cable - 50/125um or 62.5/125um, Single-mode cable - 9/125um or 10/125um
<b>Power Requirements</b>	
Input Voltage	RPT-2007GH-2F Series: Dual 48-55VDC redundant power input
	RPT-2807GH-2F Series: Dual 12-55VDC redundant power inputs ** In IEEE802.3bt application, power supply not less than 53V.
Power Connection	1 removable 6-contact terminal block
Overload Current Protection	Present (Slow-Blow Fuse)
Reverse Polarity Protection	Present
System Power Consumption	Max. 10.8W full loading
Max. PoE Power Budget	RPT-2007GH-2F Series: 240W at 48-55VDC
	RPT-2807GP-2F Series: 90W at 12VDC, 180W@24VDC, 240W at 36-55VDC
PoE Power Output	90W max. per PoE port
<b>Mechanical Characteristics</b>	
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-2007GH-2F Series: Unit weight: 1.038kg (2.29 lb) Shipping weight:1.35 kg (2.98 lb)
	RPT-2807GH-2F Series: Unit weight: 1.066kg (2.35 lb) Shipping weight:1.376 kg (3.03 lb)
Mounting	DIN-Rail Mounting, Wall Mounting
<b>Environmental Limits</b>	
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)

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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 design compliant	
Compliance	NEMA TS2 (ITS) (apply by request)	
MTBF (Telcordia SR-332, Issue 3, GB, 25°C)	RPT-2007GH-2F Series: 384,570 hrs.	
	RPT-2807GH-2F Series: 370,655 hrs.	

## DIMENSIONS



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## ORDERING INFORMATION

Model Name	10/100/1000 TX (POE 90W)	10/100/1000 TX	100/1000 FX SFP	Operating Temperature	Power input
RPT-2007GH-2F--X4	4	1	2	-10°C ~ 65°C	48-55VDC redundant
RPT-2007GH-2F-T-X4	4	1	2	-40°C ~ 75°C	48-55VDC redundant
RPT-2807GH-2F-X4	4	1	2	-10°C ~ 65°C	12-55VDC redundant
RPT-2807GH-2F-T-X4	4	1	2	-40°C ~ 75°C	12-55VDC redundant