

RPT-2010GP-2F-T | Industrial 10 Port L2 Gigabit POE Switch



FEATURE HIGHLIGHTS

- 8x Gigabit Ethernet ports with IEEE802.3at PoE+
- 2x 1000F(x) SFP Slot
- RSTP, MSTP, ERPS, MRP, LACP for Network Redundancy
- QoS CoS/DSCP to increase determinism
- IGMP Snooping v1/v2/v3, up to 512 groups
- SNMP v1/v2c/v3 for network management
- USB storage for configuration-free replacement
- industrial protocols Ethernet/IP and Modbus TCP

DESCRIPTION

RPT-2010GP-2F-T with 8 RJ-45 gigabit POE ports and 2 gigabit SFP ports for 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-2010GP-2F-T provide superior security software feature sets, ie Radius, TACACS+, SSH, SSL and network redundancy such as RSTP, MSTP, G.8032 ERPSv2. USB port function is to provide hassle free configuration.

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-2010GP-2F-T series also has completed L2 software feature sets. This series also provides 8 port power over ethernet (PoE) with 30W per port as power sourcing equipment (PSE) with maximum 240W output in total for power device (PD). In addition, 10G uplink port version is also available for full loaded data traffic application to upgrade.

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SPECIFICATIONS

Technology	
Standards	IEEE 802.3 10BaseT
	IEEE 802.3u 100BaseTX
	IEEE 802.3ab 1000BaseT
	IEEE 802.3z 1000BaseX
	IEEE 802.3x Flow Control
	IEEE 802.3af Power over Ethernet
	IEEE 802.3at PoE+
	IEEE 802.3az 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 62439-2 Media Redundancy Protocol
	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	20Gbps
Priority Queues	8 Queues
Jumbo Frame	9216bytes
MAC Table Size	16K
Packet Buffer	12Mbits
VLAN Table Size	4094
IGMP Group	512
ACL Group	512

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Software Feature

Network Redundancy	RSTP, MSTP, G.8032 ERPSv2, IEC62439-2 MRP, 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, RSPAN
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), BC (Software Timestamp), TC (Hardware Timestamp)
QoS	CoS, DSCP, WRR/SPQ Queuing, Storm Protection
POE	Powering Status, POE monitoring, Scheduling, PD alive check
Industrial Profiles	Ethernet/IP, Modbus TCP, Profinet

Interface

RJ45 Port	8x 10/100/1000T(x) with POE+, auto negotiation speed duplex mode, auto MDI/MDI-X
Fiber Port	2x 1000F(x) 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	Max. input current: 8mA
Serial Console	Multiple functions reset button
Storage	1x RS232 in RJ45 connector with console cable, 115.2Kbps, 8N1
	1x USB 2.0 storage for firmware update, configuration backup, restore, boot up and syslog

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Power Requirements

Operation Voltage	48-57VDC, redundant dual inputs, > 50VDC for PoE+ output
Connection	1x removable 4-contact terminal block
Power Consumption	0.32A@48VDC without PD consumption
PoE Power budget	Max. 240W for PD consumption. Max 30W per PoE port.
Protection	Overload Current Protected, Reverse Polarity Protected

Mechanical Construction

Enclosure	Aluminum
Protection Class	IP30
Dimensions	72x145x118 mm (WxHxD)
Weight	0.88 kg
Mounting	DIN-Rail Mounting, Optional Wall Mounting Kits

Environmental Limits

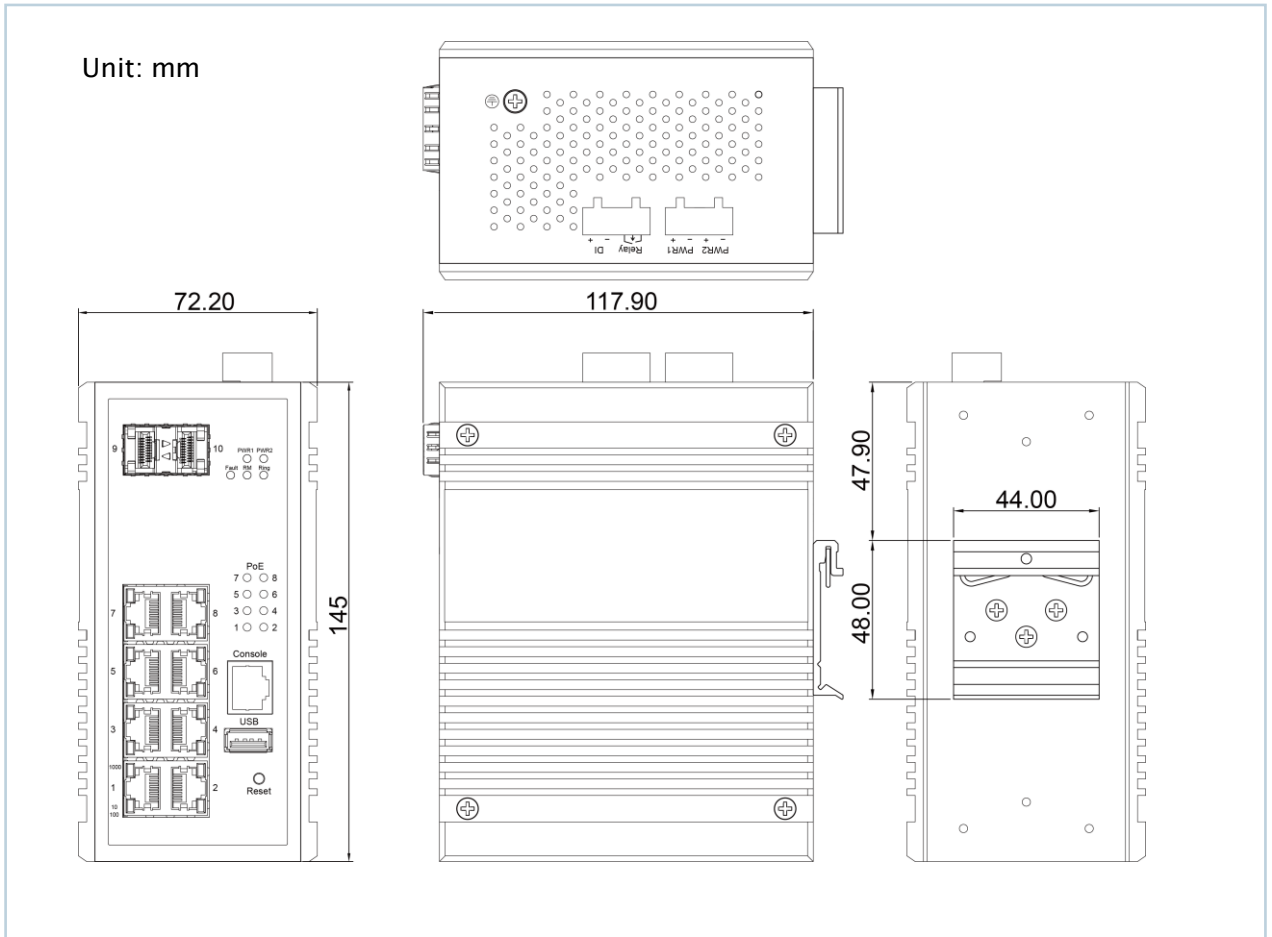
Operating Temperature	Standard: -10°C ~ 60°C (14°F ~ 140°F)
	Extended: -40°C ~ 75°C (-40°F ~ 167°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 to 95%, (Non-Condensing)

Regulatory Approvals

EMI	CE EN 55032 Class A FCC Part 15 Subpart B 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

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DIMENSIONS



ORDERING INFORMATION

Model Name	Software	10/100/1000 TX	Giga SFP	Power input
RPT-2010G-2F-T-X2	L2	8	2	12-48VDC redundant
RPT-2010GP-2F-T-X2	L2	8 (30W/ea)	2	48-57VDC redundant