

RPT-2020GP-4F-T | Industrial 16 Port PoE Gigabit Ethernet Switch



FEATURE HIGHLIGHTS

- 16x Gigabit Ethernet ports with IEEE 802.3at PoE+
- 4x 1000F(x) SFP Slot
- RSTP, MSTP, ERPS, LACP for Network Redundancy
- USB storage for configuration-free replacement
- Industrial protocols Ethernet/IP and Modbus TCP
- PoE PD Alive Check Function for PoE Device Power Recycle

DESCRIPTION

RPT-2020G-4F-T with 16 RJ-45 gigabit ports and 4 gigabit SFP ports for your industrial applications. The 16 RJ-45 ports provide power over ethernet up to 30 watt per port and comply to IEEE802.3af and IEEE 802.3at standard. The system operating temperature can be extended between -40 and 75 degree C. It's robust POE functionality support the surveillance and monitoring application in extreme harsh environment.

RPT-2020G-4F-T also provides 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 such as Ethernet/IP, Profinet and Modbus TCP could be handled via RPT-2020-4F-T for connecting PLC network. Time synchronization is also provided by IEEE1588v2 in the switch. The wide temperature and redundant DC dual power input enhance reliability in the industrial environment.

RPT-2020GP-4F-T | Industrial 20 Port PoE Gigabit Ethernet Switch

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 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	40Gbps
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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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, DDM, 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, PoE Priority
Industrial Profiles	Ethernet/IP, Modbus TCP
Interface	
RJ45 Port	Store and Forward
Fiber Port	4x 1000F(x) SFP Slot
PoE Pin Out	V+, V+, V-, V-, for pin 1, 2, 3, 6, Endspan, MDI Mode A
LED Indicators	Per unit: PWR1, PWR2, Fault, Ring Master, Ring State Ports: Link/Active(Green) 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" Max. input current: 8mA
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
Power Requirements	
Operation Voltage	48-57VDC, redundant dual inputs, >50VDC for PoE+ output recommended
Connection	1x removable 4-contact terminal block
Power Consumption	0.33A@48VDC without PDs' consumption
PoE Power Budget	Max. 240 W for total PD consumption, Max. 30 W per PoE port
Protection	Overload Current Protected, Reverse Polarity Protected

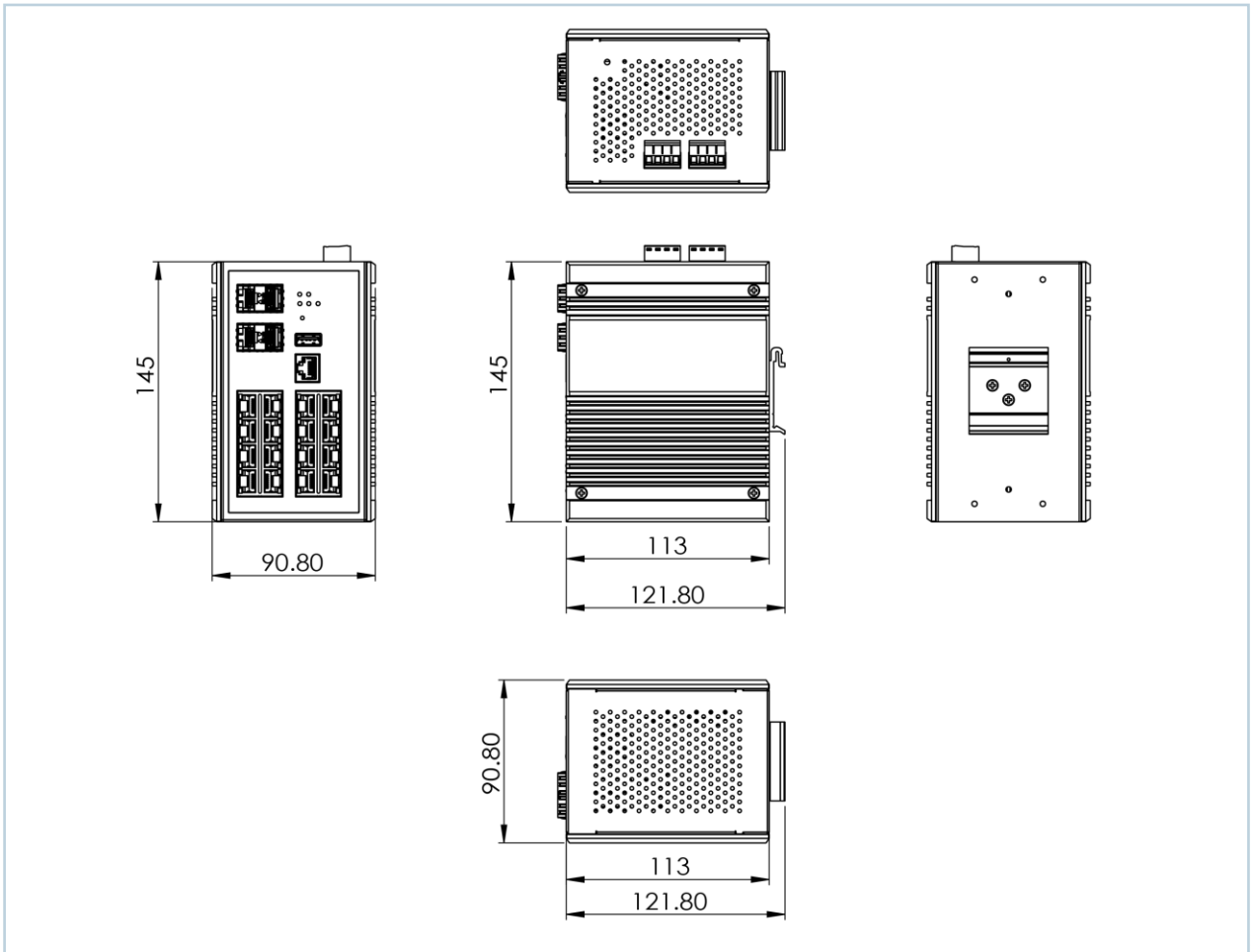
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SPECIFICATIONS

Mechanical Construction	
Enclosure	Aluminum
Protection Class	IP30
Dimensions	91x145x113 mm (WxHxD)
Weight	1.40 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	FCC Part 15 Subpart B Class A 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
MTBF	>100,000 hours
Warranty	5 Years

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DIMENSIONS



ORDERING INFORMATION

RPT-2020G-4F-X2	16x 10/100/1000T(x) with 30W PSE + 4x 1000F(x) SFP Slot Operating Temperature: -10°C ~ 60°C (14°F ~ 140°F)
RPT-2020G-4F-T-X2	16x 10/100/1000T(x) with 30W PSE + 4x 1000F(x) SFP Slot Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F)