

RPT-2020G-4F-T-X6FR | 20 Port Industrial Managed Gigabit Switch



FEATURE HIGHLIGHTS

- 16-port 10/100/1000Base-T(X)
- 4-port dual rate 100/1000Base-(F)X SFP slots
- Network Redundancy: STP, RSTP, MSTP, ERPSv2
- Port-based VLAN, IEEE 802.1Q VLAN and GVRP
- Support IEEE802.1p CoS, WRR and Strict Mode
- IP40 aluminum design
- Redundant Power Inputs, 9 ~ 56VDC
- Operating Temperature: -40°C ~ 75°C

DESCRIPTION

RPT-2020G-4F-T-X6FR has 16 10/100/1000 Base-T RJ-45 ports and 4 100/1000 Base-X SFP slots for your industrial applications. It designs to work in the industrial environment, such as in hazardous locations that comply with CE, FCC. It support 9~56 VDC dual power inputs and wide operating temperature -40 to 75 degree C.

RPT-2020G-4F-T-X6FR series provides comprehensive network security and L2 management features. 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.

RPT-2020G-4F-T-X6FR | 20 Port Industrial Managed Gigabit Switch

SPECIFICATIONS

Copper Ports	16x10/100/1000BASE-T RJ45 Auto-MDI/MDI-X (Port 1-16)
Fiber Ports	4x100/1000BASE-X SFP Slots (Port 17-20)
Console	1x RJ45-to-RS232 Serial Port(115200)
Connector	1 removable 6-contact terminal blocks Pin 1/3 for Power 1, Pin 4/6 for Power2
Alarm	One relay output for power failure, Alarm relay current carry ability: 1A@24V DC
RAM	128Mbyte
FLASH	32MByte
Reset Button	<5 sec: System Reboot; > 10 sec: Factory Default
Surge Protection	±6kV DC, ±4kV RJ45
Enclosure	IP40 aluminum case
Installation	DIN-Rail and Wall-mount
Dimension	160 x 132 x 70mm
Weight	1000g(Bare weight), 1300g(With package)
Switching	
Switch Architecture	Store-and-Forward
Switch Fabric	56Gbps/non-blocking
Forwarding Rate	29.76Mpps(64-byte packet size)
Packet Buffer Size	4 Mbits
Maximum Packet Length	10K bytes
MAC Address Table	8K entries, automatic source address learning and aging
Flow Control	IEEE 802.3x pause frame for full duplex, Back pressure for half duplex

RPT-2020G-4F-T-X6FR | 20 Port Industrial Managed Gigabit Switch

SPECIFICATIONS

PoE & Power Supply

Input Voltage	DC9-56V
Power Consumption	15 Watts Max

Environmental

Operating Temperature	-40°C~75°C (-40 to 167 °F)
Storage Temperature	-40°C~85°C (-40 to 185 °F)
Operating Humidity	5%~95% (non-condensing)
MTBF	907,476 hours @ Telcordia SR-332 Standard
Heat Dissipation	65 BTU/h (non-PoE mode)

RPT-2020G-4F-T-X6FR | 20 Port Industrial Managed Gigabit Switch

SOFTWARE FEATURES

Port Configuration	Port(Admin Status) disable/enable
	Copper Port: Auto-negotiation 10/100/1000Mbps full and half duplex mode selection
	Fiber Port: 100M/1000M speed selection
	Flow Control disable/enable
	Power saving(EEE) disable/enable Each port description
Port Status	Display each ports' speed duplex mode, link status, flow control status, auto negotiation status, Fiber Port Information, Port Traffic
Port Mirroring	Source Ingress/ Egress Port/ Both, Many-to-1 monitor
VLAN	Up to 4K VLAN groups, out of 4094 VLAN IDs IEEE 802.1Q tag-based VLAN
	IEEE 802.1AD Q-in-Q tunneling(Double VLAN) GVRP(Generic VLAN Registration Protocol)
Link Aggregation	IEEE 802.3ad LACP/Static trunk
	Supports 6 trunk groups with 4 ports per trunk
Spanning Tree Protocol	IEEE 802.1D Spanning Tree Protocol
	IEEE 802.1w Rapid Spanning Tree Protocol
	IEEE 802.1s Multiple Spanning Tree Protocol
Multicast	Dynamic/Static Multicast groups
	IGMP Snooping v1,2,3
	Port-based IGMP Snooping Fast Leave GMP Querier
Rate Limitation	Per Port Rate Limitation
	Ingress: 16-1000000 kbps/Egress: 16-1000000 kbps
Ring	ITU-T G.8032 ERPS, Recovery time < 10ms
QoS	Traffic classification based, strict priority and WRR 8-level priority for switching
	-Port number
	-802.1p priority
	-802.1Q VLAN tag
	-DSCP/TOS field in IP Packet

RPT-2020G-4F-T-X6FR | 20 Port Industrial Managed Gigabit Switch

SOFTWARE FEATURES

ACL	IP-based ACL/MAC-based ACL ACL based on:
	-MAC Address -IP Address -Ethertype -Protocol Type -VLAN ID -DSCP -802.1p Priority
Security	Port Security
	Static MAC address
	IEEE 802.1x port-based network access control
	RADIUS authentication
	DHCP Snooping, DHCP option 82

RPT-2020G-4F-T-X6FR | 20 Port Industrial Managed Gigabit Switch

SOFTWARE FEATURES

Layer 3 Functions

IP Interfaces	Max. 8 VLAN interfaces
Routing Table	Max.32 routing entries
Routing	IPv4 software static routing

Management

Basic Management Interface	Console; Telnet; Web browser; SNMPv1/v2c
Secure Management Interface	SSHv2, TLSv1.2, SNMPv3
System Management	Firmware Upgrade by HTTP protocol through Ethernet network Configuration upload/download through HTTP
	Remote syslog, System log
	LLDP protocol, SNTp
	PREVIEW NMS Alarm(Relay, Led, Temperature, Trap, Power)

LED	State	Description
PWR (P1&P2)	ON	Power is being supplied
	OFF	Power is not being Supplied.
Link/ACT (1-20)	ON	Port connection is active
	Blinking	Data transmitted
	OFF	Port connection is not active

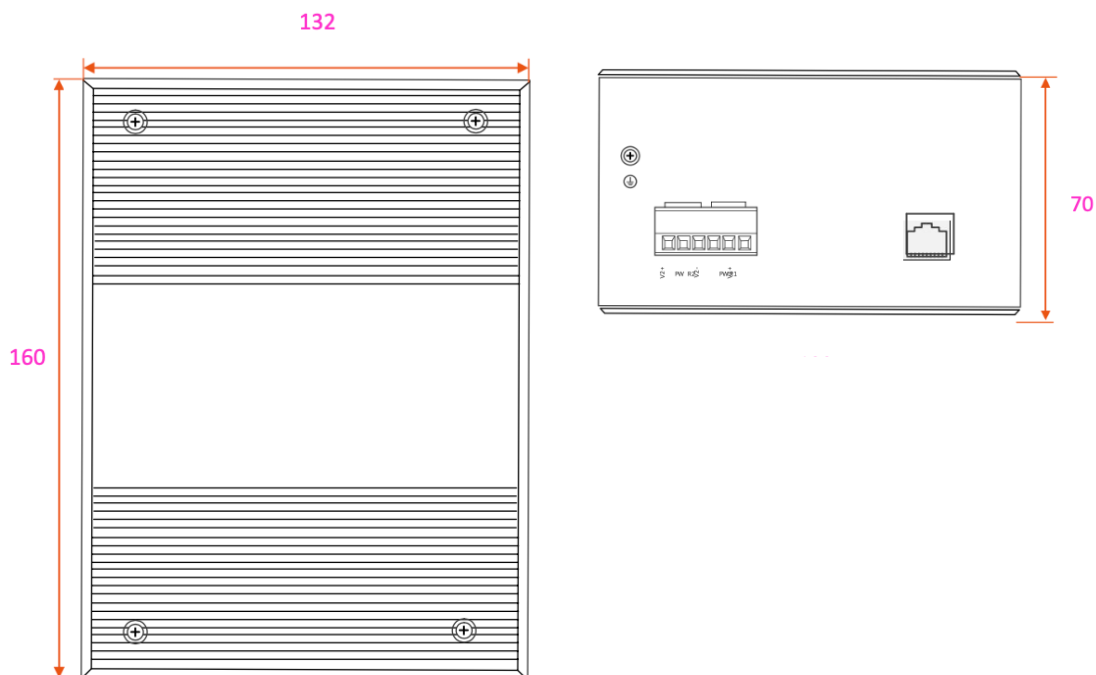
RPT-2020G-4F-T-X6FR | 20 Port Industrial Managed Gigabit Switch

REGULATORY

Safety	IEC62368-1:2020+A11:2020
EMI	FCC Part 15B Class A, IEC 61000-3-2
EMS	IEC61000-4-2 ESD: Contact: $\pm 8\text{kV}$, Air: $\pm 15\text{kV}$ IEC61000-4-5 Surge: Power: $\pm 6\text{kV}$; RJ45: $\pm 4\text{kV}/\pm 6\text{kV}(\text{PoE})$
Shock	IEC 60068-2-27
Free Fall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Environmental	RoHS 2011/65/EU Annex II(EU)
Warranty	5 Years

DIMENSIONS

Unit: mm

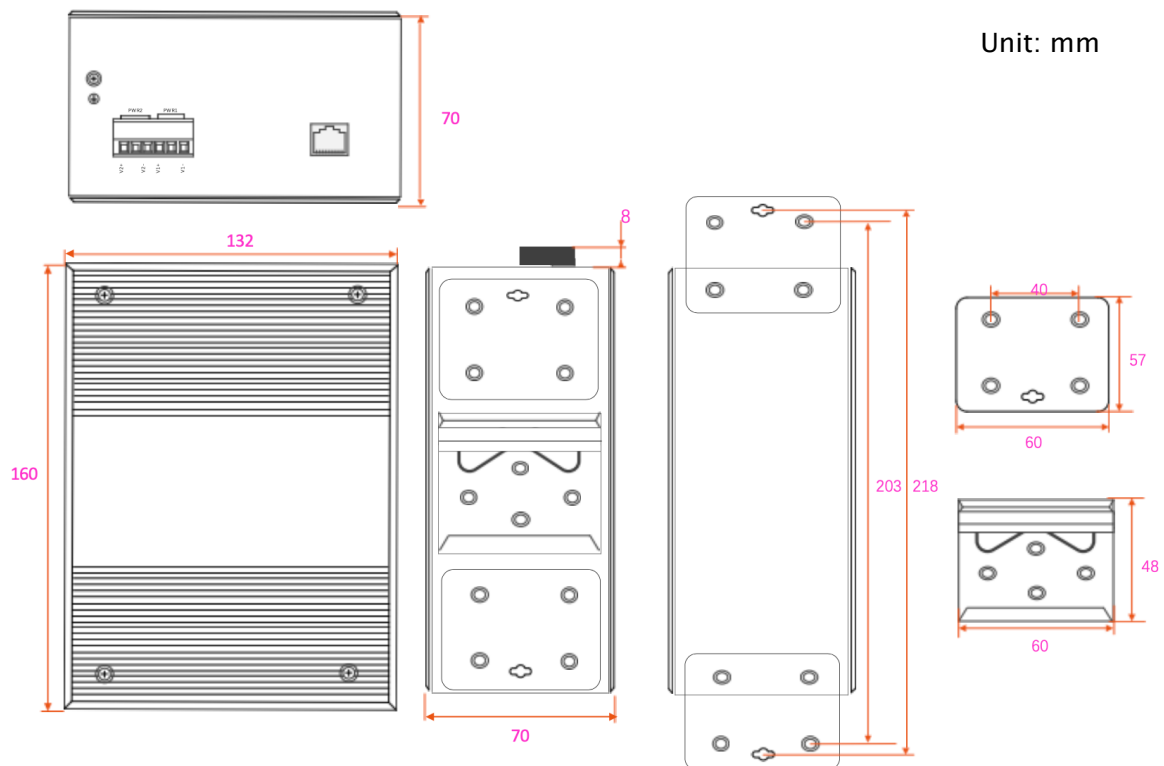


RPT-2020G-4F-T-X6FR 20 Port Industrial Managed Gigabit Switch

REGULATORY

Safety	IEC62368-1:2020+A11:2020
EMI	FCC Part 15B Class A, IEC 61000-3-2
EMS	IEC61000-4-2 ESD: Contact:±8kV, Air:±15kV IEC61000-4-5 Surge: Power: ±6kV; RJ45:±4kV/±6kV(PoE)
Shock	IEC 60068-2-27
Free Fall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Environmental	RoHS 2011/65/EU Annex II(EU)
Warranty	5 Years

DIMENSIONS



Email: sales@sbjlink.com
Website: www.sbjlink.com

RPT-2020G-4F-T-X6FR | 20 Port Industrial Managed Gigabit Switch

ORDERING INFORMATION

Model Name	Software	10/100/1000 TX	100/1000 FX SFP	Operating Temperature	Power input
RPT-2020G-4F-T-X6FR	L2	16	4	-40°C ~ 75°C	9-56VDC redundant