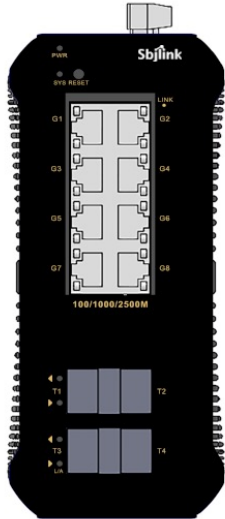


RPT-2012MGX-4F-T-X6V | 12 Port Industrial L2+ 2.5G Switch



FEATURE HIGHLIGHTS

- 8-port 10/100/1000/2500 Base-T(X) Ethernet
- 4-port dual rate 1/10G uplink SFP+ slots
- 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 and Radius for security
- Redundant Power Inputs, 12~48VDC
- Operating temperature range, -40°C ~ 75°C

DESCRIPTION

RPT-2012MGX-4F-T-X6V is a L2+ industrial switch with 8x 10/100/1000/2500Base-T RJ-45 ports and 4x 1/10G FX SFP+ slots. It was designed following industrial standards. IP40 protection, Dual power input 12-48VDC and wide operating temperature -40 to 75 degree C is suitable for industrial applications.

RPT-2012MGX-4F-T-X6V carries comprehensive management functions such as IPV4/IPV6, static route forwarding, support Multiusers account, IGMP, GVRP, VLAN, QoS, SNMP, RADIUS, Aggregation(Static, LACP), SSH, SSL, IP source guard to create a highly-secured network environment. RPT-2012MGX-4F-T-X6 also supports redundancy protocols STP/RSTP/MSTP and (ITU-T G.8032) ERPS to ensure your network reliability.

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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 802.3be 2.5GBase-T
	IEEE 802.3ae 10GBase-SR/LR
	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	Web network management (https)
	Link Layer Discovery Protocol(LLDP)
	Viewing CPU Instant Utilization Status
	NTP clock, One click restore, SNMP V1/V2C/V3
	Cable status check, Ping detection, System work log
	NMS platform cluster management (LLDP+SNMP)
	Console/AUX Modem/Telnet/CLI command line configuration
FTP, TFTP, Xmodem, SFTP file upload and download management	
Security	Port based IEEE802.1X authentication
	SSL guarantees data transmission security
	Quad binding function of IP+MAC+VLAN+ports
	MAC address learning limit, MAC address black hole
	Anti DoS attack, Port broadcast message suppression
	IP Source Guard function, AAA&RADIUS certification
	Hierarchical user management and password protection
SSH 2.0 provides a secure encrypted channel for user login	
Host data backup mechanism, ARP intrusion detection function	
QoS	Queue Scheduling Algorithm (SP, WRR, SP+WRR)
	Flow-based Rate Limiting, Stream based redirection
	Flow-based Packet Filtering, 8*Output queues of each port
	802.1p/DSCP priority mapping, Diff-Serv QoS, Priority Mark/Remark

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SPECIFICATIONS

DHCP	DHCP Client, DHCP Snooping, DHCP Server
ACL	ACL distribution based on port and VLAN L2-L4 packet filtering function, matching the first 80 bytes message, and provides ACL definitions based on source MAC address, destination MAC address, source IP address, destination IP address, IP protocol type, TCP/UDP port, TCP/UDP port range, VLAN
Mirroring	Bidirectional traffic mirroring for basic ports one-to-multiple mirroring, supports up to 4 port sessions
Multicast	MLD Snooping, IGMP Snooping, Multicast VLAN User quick log out, MVR (Multicast VLAN registration) IGMP Snooping v1/v2/v3 and 1024 multicast groups at most
Port Aggregation	LACP dynamic aggregation, Static aggregation Max 6 aggregation groups and maximum 8 ports per group.
Spanning Tree	STP BPDU Guard, BPDU filtering and BPDU forwarding STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
ERPS Ring Network	Support ERPS ring network, ring network self-healing time is less than 20ms, ITU-T G.8032
Layer 3 Features	Static routing, RIPv1/v2, RIPv6, OSPFv1/v2, OSPFv3 The max number of entries in the ARP protocol is 1024 L2+ network management, dual-stack IPv4/IPv6 management
VLAN	VLAN based on MAC, VLAN based on the protocol Port configuration of Access, Trunk, Hybrid. GVRP VLAN protocol (4K) VLAN based on port, IEEE802.1q, Voice VLAN, QinQ configuration

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SPECIFICATIONS

Switch Properties	
Switching Capacity	96Gbps
Priority Queues	8
Max. Number of VLANs	4094
Memory Buffer	16Mbits
Jumbo Frame	12Kbytes
MAC Table Size	32K
IGMP Group	1024
Forwarding Rate	89.28Mpps @64 byte
Interface	
RJ45 Ports	8* 10/100/1000/2500Base-T(X)
Fiber Port	4* 1/10G uplink SFP+ slots
LED Indicators	Power/ System: SYS (Green), Network: Link (Yellow), Fiber port: L/A (Green), Speed: 100/1000(Green)
RS232 Serial Console	1*RS232 Console port baud rate 115,200bps,N,8,1
Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meters)
	100BASE-TX: Cat5 or later UTP(≤100 meters)
	1000BASE-T: Cat5e or later UTP(≤100 meters)
	2500BASE-T: Cat6A or later UTP(≤100 meters)
Optical Fiber Port	1/10G SFP+ optical fiber port, default no include optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)
Optical Cable/ Distance	Multi-mode: 850nm / 0-500m Single-mode: 1310nm / 0-40km, 1550nm / 0-120km
Power Requirements	
Input Voltage	Dual 12-48VDC redundant power
Power Connection	1 removable 6-contact industrial Phoenix terminal, support anti-reverse protection
System Power Consumption	Standby <16W, Full load <25W

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SPECIFICATIONS

Mechanical Characteristics	
Housing	Aluminum , IP40 protection
Dimensions (W x H x D)	166 x 150 x 75 mm
Weight	1.9kg/shipping2.4kg
Mounting	DIN-Rail Mounting, Desktop
Environmental Limits	
Operating Temperature	-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/CISPR22 (EN55022): Class B
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)
	IEC61000-4-9 (pulsed magnet field)
	IEC61000-4-10 (damped oscillation)
	IEC61000-4-12/18 (shockwave), IEC61000-4-16 (common-mode transmission)
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
Certifications	CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS

ORDER INFORMATION

Model Name	Software	10/100/1000/2500 Base-T	1/10G SFP+	Operating Temperature	Power input
RPT-2012MGX-4F-T-X6V	L2+	8	4	-40°C ~ 75°C	12-48VDC redundant