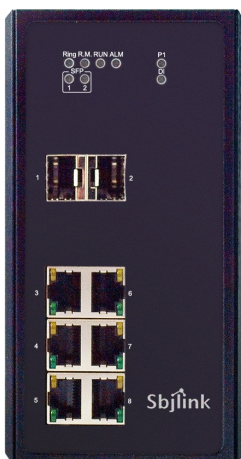


RPT-2008G-2F-I-T-X1 | IEC 61850-3 8-Port Managed Gigabit Switch



FEATURE HIGHLIGHTS

- IEC61850-3 Certified, KEMA-KEUR
- 6x 10/100/1000 BASE-T(X) ports
- 2x 1000 BASE-X SFP ports
- IEEE1588v2 Precision Time
- ERPS and Ring (recovery time < 20ms @ 40 switches)
- Remote management: Web browser, Telnet, Serial console, Utility
- Security features based on IEC62443-4-2

DESCRIPTION

RPT-2008G-2F-I-T is one of Sbjlink power substation switch series, compliant to IEC61850-3 and KEMA (DNL.GL) certificates. The IEEE1588 v2 precision-time function is specially implemented in Sbjlink power substation switch series to allow the deployment with stringent time Synchronization requirements. The product equips 6 10/100/1000BASE-T(X) RJ-45 ports and 2x 1000BASE-X SFP ports.

It provides network redundancy self-recovery mechanisms less than 20ms on full load. Users can build a reliable network through a redundant ring topology with ERPS, STP, MSTP, RSTP, MRP (Client) and other compatible rings. The product also offers intelligent features such as Quality of service (QoS), Virtual LAN (VLAN), IGMP, IGMP Snooping, port mirroring and security features with multifunctional web dashboard. To design to be used in core power utilities, this product has dual redundant power inputs with reverse polarity protection and two sets of relay that allow users to build up a stand-alone fault alarm system. Its wide operating temperature between -40 to 85°C is designed to sustain the product's reliability in harsh environment.

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SPECIFICATIONS

Switch Properties

Priority Queues	8
VLAN Table	4096
Mac Based VLAN	512
VLAN ID Range	VID 1 to 4094
Trunk Group	4
Static IGMP Groups	128
Dynamic IGMP Groups	256
MAC Table Size	16K
Packet Buffer Size	1.5MB
Jumbo Frame	9216 Byte

Ethernet

Standards	IEEE 802.3 for 10BaseT
	IEEE 802.3u for 100BaseT(X)
	IEEE 802.3ab for 1000BaseT(X)
	IEEE 802.3z for 1000BaseX
	IEEE 802.3x for Flow Control, back pressure flow control
	IEEE 802.1d-2004 for Spanning Tree Protocol
	IEEE 802.1w for Rapid Spanning Tree Protocol
	IEEE 802.1s for Multiple Spanning Tree Protocol
	IEEE 802.1q for VLAN Tagging
	IEEE 802.1p for Class of Service
Protocols	IEEE 802.1X for Authentication
	IPv4, IPv6, IGMPv1/v2/v3, IGMP Snooping, GARP, GMRP, GVRP, SNMPv1/v2c/v3, SNMP Inform, ICMP, Telnet, SSH, DHCP Relay/Client, BootP, RARP, TFTP, SNTP, SMTP, SMTP (Gmail), RMON, HTTP, HTTPS, Syslog, MRP (Client), LLDP, 802.1x, EAP, RADIUS, TACACS+, Mirror port, QoS, ACL, ITU-T G.8032 ERPS Ring, STP, RSTP, MSTP, Compatible Ring, Serial Console
	Redundancy
	ITU-T G.8032 ERPS, STP, RSTP, MSTP, MRP(Manager/Client)
	Automation Profiles
	Modbus/TCP status registers
	SNMP MIB
	MIB II, IF-MIB, SNMPv2 MIB, BRIDGE-MIB, RMON MIB Group 1,2,3,9, RFC RFC 1157, RFC 1213, RFC 1215, RFC 1493, RFC 1643, RFC 1757, RFC 2011, RFC 2012, RFC 2013, RFC 2233, RFC 2571, RFC 2742, RFC 2819, RFC 2863, RFC 3411, RFC 3412, RFC 3413, RFC 3414, RFC 3415

RPT-2008G-2F-T-X1 | IEC 61850-3 8-Port Managed Gigabit Switch

SPECIFICATIONS

Power

Rated Supply Voltage	24-57 VDC; 100~240 VAC for AC series; 110~370 VDC for HV Series
Input Voltage	19.2-62.7 VDC; 85~264 VAC for AC series; 110~370 VDC for HV Series
Input Current (System)	0.63A @ 24 VDC; 0.16A @ 100 VAC for AC series; 0.12A @ 110 VDC for HV series
Connector	5-Pin 5.08mm Lockable Terminal Block
Reverse Polarity Protection	Yes

Interfaces

RJ45 Ports	6x 10/100/1000BASE-T(X) auto negotiation speed
Fiber Optics Ports	2x 1000 Base-X SFP slots
LED Indicators	PWR1, PWR2, Alarm, Run, Ring, Ring Master, RJ-45 Link/Speed, SFP Link
Console	RS232 (RJ45 connector)
Relay Output	2 relay outputs with current carrying capacity of 1A @ 24 VDC
DIP Switches	Ring Control
Button	Reset Button

Physical Characteristics

Housing	IP30 SPCC black housing
Dimension (W x H x D)	77 x 145 x 113 mm
Weight	1,000g (AC/HV versions) / 1,200g (other)
Installation	DIN-Rail, Wall mount (optional kit)

Environmental Limits

Operating Temperature	-40°C~85°C (-40°F~185°F)
Storage Temperature	-40°C~85°C (-40°F~185°F)
Ambient Relative Humidity	5%~95% RH, 55°C (Non-condensing)

Regulatory Approvals

CE	CE compliant
IEC61850	IEC61850-3 compliant
Green	RoHS

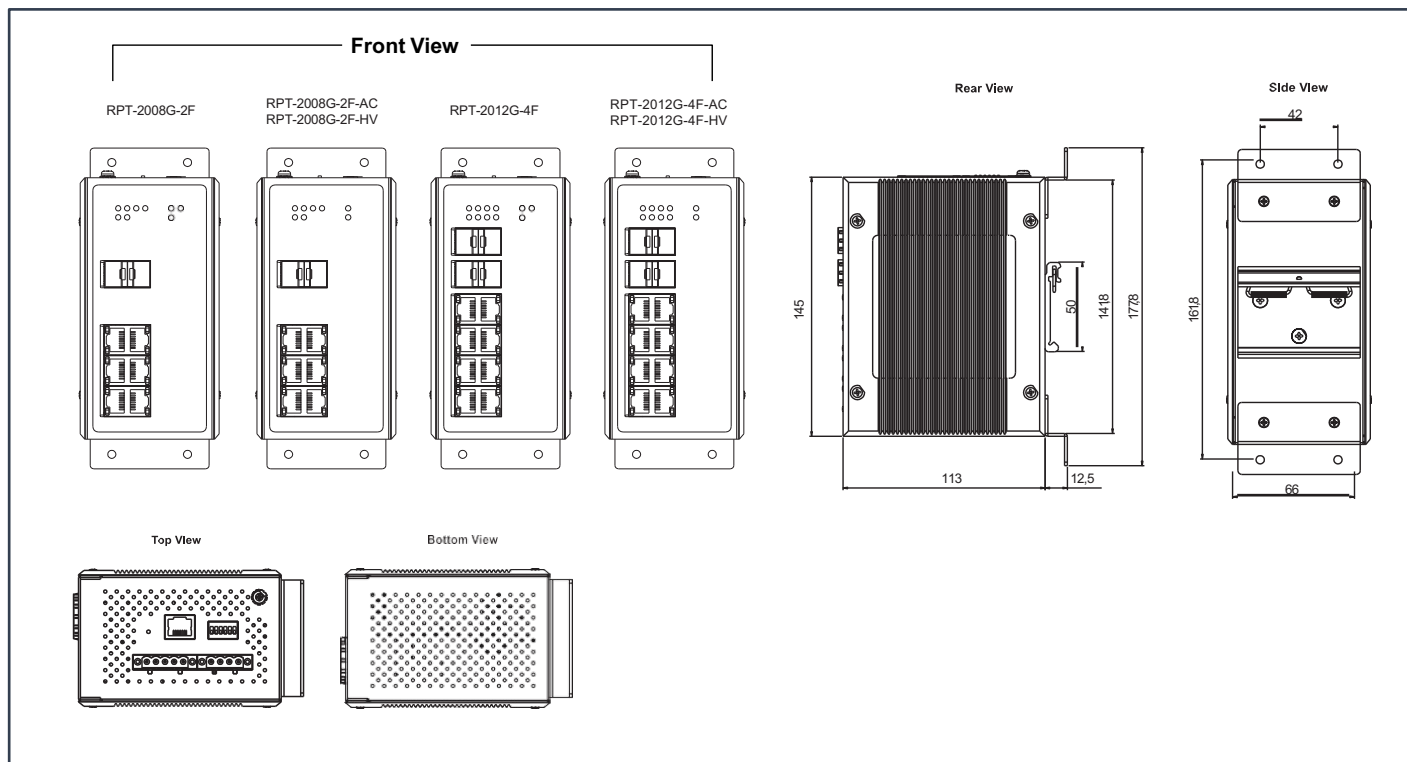
RPT-2008G-2F-T-X1 | IEC 61850-3 8-Port Managed Gigabit Switch

SPECIFICATIONS

Test	Item		Value	Level
IEC 61000-4-2	ESD	Contact Discharge	±8KV	4
		Air Discharge	±15KV	4
IEC 61000-4-3	RS	80-1000MHz	20(V/m)	3
		1.0-3.0GHz	10(V/m)	3
IEC 61000-4-4	EFT	AC Power Port	±4.0kV@2.5kHz	4
		DC Power Port	±4.0kV@2.5kHz	4
		Signal Port	±4.0kV@5.0kHz	4
IEC 61000-4-5	Surge	AC Power Port	Line-to Line ±2.0kV	4
		AC Power Port	Line-to Earth ±4.0kV	4
		DC Power Port	Line-to Line ±1.0kV	3
		DC Power Port	Line-to Earth ±2.0kV	3
		Signal Port	Line-to Earth ±4.0kV	4
IEC 61000-4-6	CS	AC Power Port	10V, 150kHz~80MHz, 80% AM 10V	3
		DC Power Port	150kHz~80MHz, 80% AM 10V	3
		Signal Port	150kHz~80MHz, 80% AM	3
IEC 61000-4-8	PFMF	Enclosure	100A/m continuous,	5
			1000A/m for 1S	5
IEC 61000-4-11	DIP	AC Power Port	Drop 70% 3 times/S (1 Period) Drop 40% 3 times/1mS (50 Period) Drop 100% 3 times/50mS (5&50 Period)	N/A
Shock	MIL-STD-810G Method 516.5			
Drop	MIL-STD-810F Method 516.5			
Vibration	MIL-STD-810F Method 514.5 C-1 & C-2			
RoHS II	Yes			
MTBF	20 Years			

RPT-2008G-2F-T-X1 | IEC 61850-3 8-Port Managed Gigabit Switch

DIMENSIONS



Ordering information

Model name	Description
RPT-2008G-2F-I-DC-T-X1	8-Port Managed IEC 61850-3 Gigabit switch with 2 SFP ports, 24~57 VDC power input
RPT-2008G-2F-I-AC-T-X1	8-Port Managed IEC 61850-3 Gigabit switch with 2 SFP ports, 100~240 VAC power input
RPT-2008G-2F-I-HV-T-X1	8-Port Managed IEC 61850-3 Gigabit switch with 2 SFP ports, 110~370 VDC power input
RPT-2012G-4F-I-DC-T-X1	12-Port Managed IEC 61850-3 Gigabit switch with 4 SFP ports, 24~57 VDC power input
RPT-2012G-4F-I-AV-T-X1	12-Port Managed IEC 61850-3 Gigabit switch with 4 SFP ports, 100~240 VAC power input
RPT-2012G-4F-I-DC-T-X1	12-Port Managed IEC 61850-3 Gigabit switch with 4 SFP ports, 110~370 VDC power input