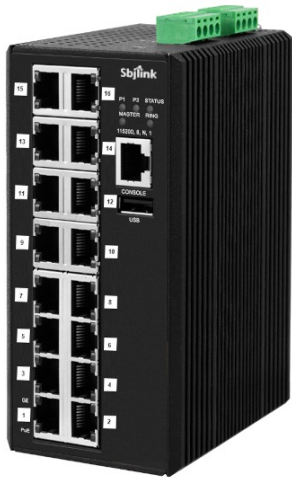


## RPT-2016GP-X4 | 16 Ports Industrial Managed Gigabit PoE+ Switch



### FEATURE HIGHLIGHTS

- 16-port 10/100/1000Base-T(X) Ethernet with IEEE 802.3af/at compliant PoE, 30W/port
- Network redundancy: G.8032 ERPS v2/ STP/ RSTP/ MSTP
- RADIUS, TACACS+ authentication protocol
- QoS, LACP bandwidth control
- Security: VLAN, SNMP v1/v2c/v3, ACL, IP source guard
- Redundant power inputs design
- Operating temperature: -10°C ~ 65°C (-40°C ~ 75°C)

### DESCRIPTION

RPT-2016GP-X4 is a 16-port managed Gigabit Ethernet switch, which provides 16\*10/100/1000 Base-T(X) with power over ethernet 30 watts per port. It is full manageable Layer-2 Ethernet switch series, IEEE802.3af/at compliant for PoE and supports power inputs redundancy. It offers standardized network redundancy ITU-T G.8032 ERPS v2 (Ethernet Ring Protection Switch) protocol, providing <50ms recovery time to the network.

RPT-2016GP-X4 provides comprehensive network security and management 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-2016GP-X4 as an industrial Ethernet switch product line is designed to withstand harsh and extreme environment conditions. With fanless design, RPT-2016GP-X4 still manage to be applied in extremely polarized temperature, from -40°C to 75°C, making it the best choice in various industrial applications

# RPT-2016GP-X4 | 16 Ports Industrial Managed Gigabit PoE+ Switch

## SPECIFICATIONS

Technology	
Standards	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX Fast Ethernet
	IEEE 802.3ab 1000Base-T Gigabit Ethernet
	IEEE 802.3x Flow Control
	IEEE 802.3 af/at Power Over Ethernet
	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	IPv4/IPv6, SNMP v1/v2c/v3, LLDP, LLDP-MED, HTTP, HTTPS, SSHv2 telnet, DHCP client, DHCPv6 client, DHCP server, Port Mirror, DNS client/proxy, IP based Access Filter, ICMPv6, syslog, Time Zone /Daylight Saving, NTP client, RMON, sFlow, Loop detection, Console Port, USB configuration backup/restore, Power lost warning, relay trigger
Security	Port-based/Single/Multi 802.1X, ACL(Port/Rate Limiters/ACE), MAC-based Authentication, VLAN assignment, QoS Assignment, Private VLAN, Guest VLAN, RADIUS accounting, TACACS+, IP MAC binding, WEB/CLI authentication, Authorization (15 levels), Port Security Limit Control, ACLs for filtering/policing/port copy, IP source guard, ARP Inspection
L2 Switching	Port/MAC/Protocol/IP Subnet-based VLAN, GARP/GVRP, Loop Guard, Link Aggregation static/LACP, BPDU guard, Error disable recovery, IGMP snooping v2/v3, MLD snooping v1/v2, IGMP filtering, IPMC throttling / filtering leave proxy, DHCP snooping, G.8032 v1/v2
L3 Switching	DHCP option82, static routes
QoS	802.1p Queueing, Input priority mapping, Storm control for Unicast/Multicast/Broadcast, Port/Queue/ACL policer, Port egress shaper, Queue egress shaper, DiffServ (DSCP), Tag remarking, Scheduler mode
PoE	POE/POE+ port power allocation, Power budget protection, PoE output scheduled, PoE alive check and remote reboot PD device
Power Saving	ActiPHY, PerfectReach, IEEE 802.3az EEE power management
Network Redundancy	STP/RSTP/MSTP, port trunk with LACP, ERPS v1/v2 (<50ms)
Configuration	Http, Https, Telnet, SSH, CLI, TFTP, SNMP v3
System / Diagnostics	Dual Image Protection, PING, PING6

# RPT-2016GP-X4 | 16 Ports Industrial Managed Gigabit PoE+ Switch

## SPECIFICATIONS

### Switch Properties

Switching Fabric (Back-Plane)	32Gbps
Priority Queues	8
Max. Number of VLANs	4095
VLAN ID Range	VID 1 to 4095
Memory Buffer	4Mbits
Jumbo Frame	9.6Kbytes
MAC Table Size	8K
IGMP Group	1024
Transfer Rate	14,880pps for Ethernet port
	148,800pps for Fast Ethernet port
	1,488,000pps for Gigabit Ethernet port

### Interface

RJ45 Ports	16*10/100/1000 Base-T(X) PoEwith 16*PoE-PSE (30W/Port) Auto-Negotiation, Full/Half Duplex, Auto-MDI/MDI-X
PoE Pin Out	V+, V+, V-, V-, for pin 1, 2, 3, 6 (End-span, Mode A)
LED Indicators	System: Power 1, Power 2, Master, Ring, Status
	Ethernet ports: Speed/Link/Active PoE: On-Connected to PD
RS232 Serial Console	1*RS232 in RJ45 connector with console cable, baud rate 115,200bps,8,N,1
Configuration Backup	1*USB 2.0 host (type-A) for configuration backup/restore
Relay Contact	24 VDC, 1A resistive
DI	1* Digital Input (DI): State 0: -30~8VDC / State 1: 10~30VDC, Max. input current: 8mA
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m)
	100Base-TX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m)
	1000Base-TX: 4-pair UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)

# RPT-2016GP-X4 | 16 Ports Industrial Managed Gigabit PoE+ Switch

## SPECIFICATIONS

### Power Requirements

Input Voltage	Dual 48-55 VDC redundant power inputs
Power Connection	2*removable 4-contact terminal block
Overload Current Protection	Present (Slow-Blow Fuse)
Reverse Polarity Protection	Present
System Power Consumption	Max. 13.8W full loading
PoE Budget	240W at 48-55VDC

### Mechanical Characteristics

Housing	Metal, IP30 protection
Dimensions (W x H x D)	67 x 142 x 99 mm (2.64 x 5.59 x 3.9 inch)
Weight	Unit weight: 1.2kg (2.76 lb), Shipping weight: 1.4kg (3.31 lb)
Mounting	DIN-Rail Mounting, Wall Mounting

### Environmental Limits

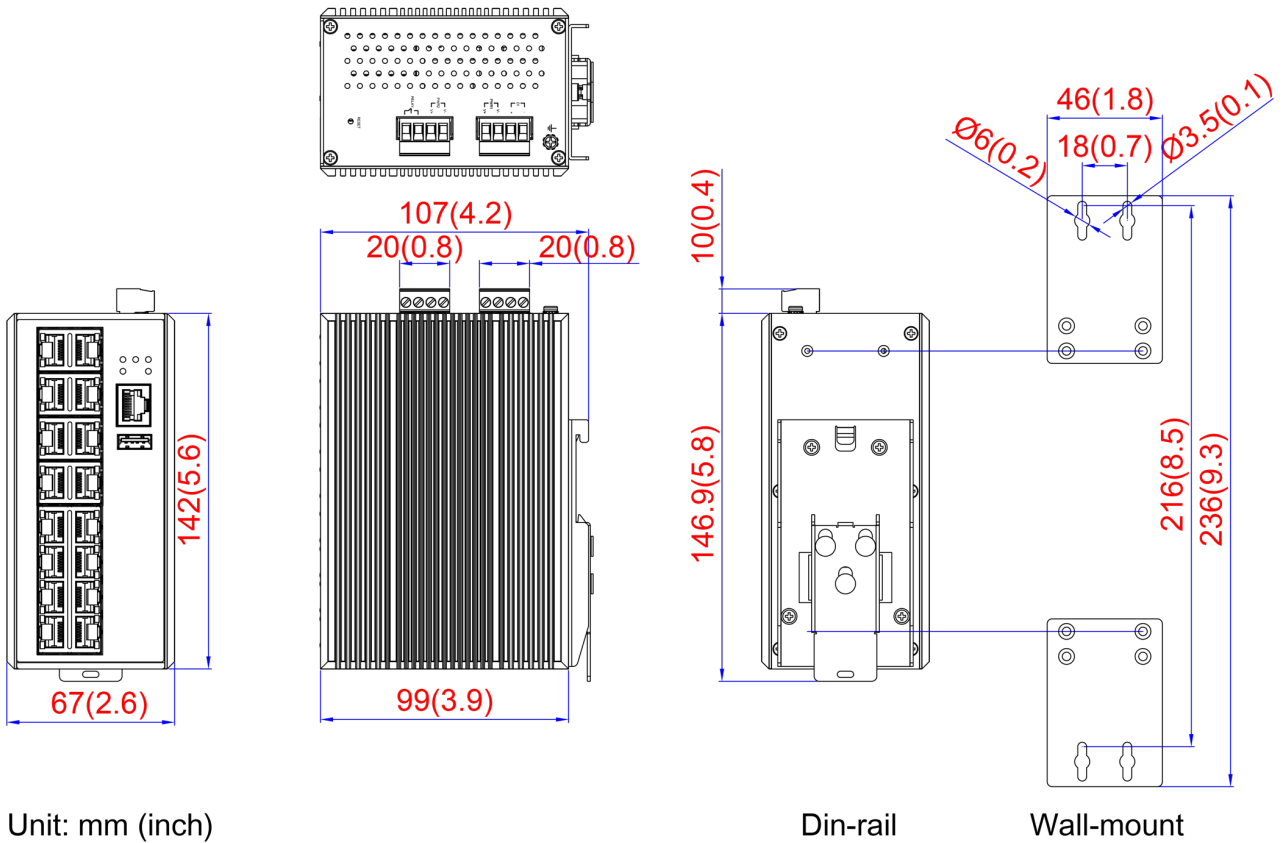
Operating Temperature	Standard: -10°C ~ 65°C (14°F ~ 149°F) Extend: -40°C ~ 75°C (-40°F ~ 167°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 to 95%, (non-condensing)

### Regulatory Approvals

EMI	FCC Part 15 Subpart B Class A, CE EN55032/EN61000-6-4 Class A
EMS	CE EN55035/EN61000-6-2 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
Safety	UL61010-1, UL61010-2-201 Compliant (For UL model, please contact us: sales@sbjlink.com)
Substation	IEC61850-3 Edition 2.0 Compliant
MTBF (Telcordia SR-332, Issue 3, GB, 25°C)	332,080 hours
Warranty	5 Years

# RPT-2016GP-X4 | 16 Ports Industrial Managed Gigabit PoE+ Switch

## DIMENSION



## ORDERING INFORMATION

Model Name	Software	10/100/1000TX,PoE	Operating Temperature	Power input
RPT-2016GP-X4	L2	16	-10°C ~ 65°C	48-55VDC redundant
RPT-2016GP-T-X4	L2	16	-40°C ~ 75°C	48-55VDC redundant