



FEATURE HIGHLIGHTS

- 16-port 10/100/1000Base-T(X) Ethernet
- Multiusers account for security
- Configuration: http, https, CLI Command, Telnet, SNMP, SSH
- Network redundancy: G.8032 ERPS v2/ STP/ RSTP/ MSTP
- Static routes for routing function
- RADIUS, TACACS+ authentication protocol
- QoS, LACP bandwidth control
- VLAN, SNMP v1/v2c/v3, ACL, IP source guard
- Redundant power inputs design
- Operating temperature range
Standard: -10°C ~ 65°C, Extend: -40°C ~ 75°C

DESCRIPTION

RPT-2016-X4 is a 16-port managed Full Gigabit Ethernet switch, which provides 16*10/100/1000 Base-T(X). It is full manageable Layer-2 Ethernet switch series, and supports power inputs redundancy.

RPT-2016G-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. . It also offers standardized network redundancy ITU-T G.8032 ERPS v2 (Ethernet Ring Protection Switch) protocol, providing <50ms recovery time to the network, to give user the chance to choose your Ethernet switch but not tied up with particular brand's product.

RPT-2016G-X4 as an industrial grade switch that is designed to withstand harsh and extreme environment conditions. With fan less design, RPT-2016G-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

SPECIFICATIONS

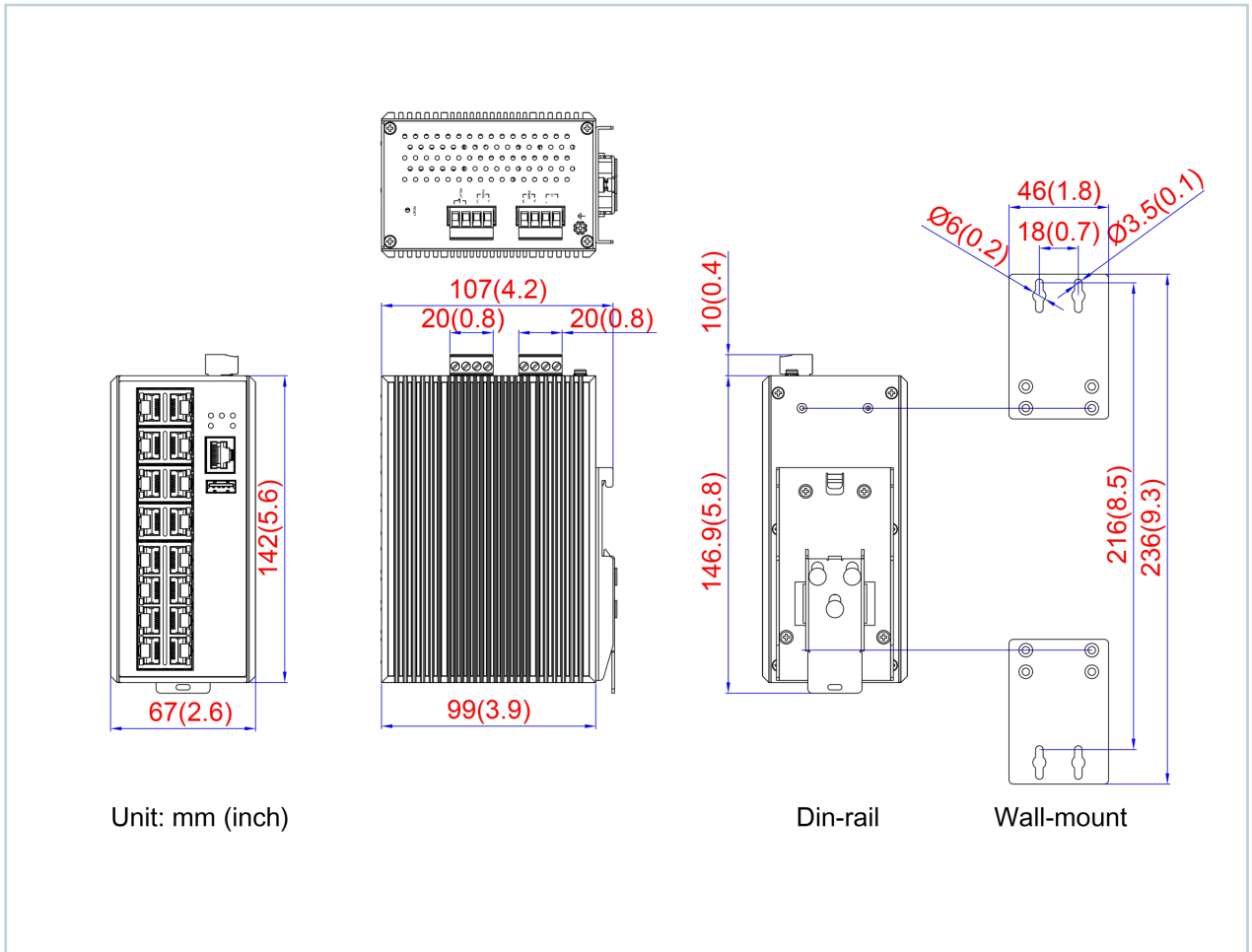
| Technology | |
|---|--|
| Standards | IEEE 802.3 10Base-T Ethernet |
| | IEEE 802.3u 100Base-TX Fast Ethernet |
| | IEEE 802.3ab 1000Base-T Gigabit Ethernet |
| | IEEE 802.3z 1000Base-X Gigabit Fiber |
| | IEEE 802.3x Flow Control |
| | IEEE 802.1d STP (Spanning Tree Protocol) |
| | IEEE 802.1w RSTP (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 | 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 |
| 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 |

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| 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) |
| | Auto-Negotiation, Full/Half Duplex, Auto-MDI/MDI-X |
| LED Indicators | System: Power 1, Power 2, Master, Ring, Status |
| | Ethernet ports: Speed/Link/Active |
| 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) |

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| Power Requirements | |
|--|---|
| Input Voltage | Dual 12-48VDC 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 |
| 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 CE EN55035/EN61000-6-2 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 |
| Safety | UL61010-1, UL61010-2-201 |
| Substation | IEC 61850-3 Edition 2.0 (-I model) |
| MTBF (Telcordia SR-332, Issue 3, GB, 25°C) | 481,511 |
| Warranty | 5 Years |

DIMENSIONS

ORDERING INFORMATION

| Model Name | Description |
|------------------|--|
| RPT-2016G-X4 | 16 x 10/100/1000T(x) Operating Temperature: -10°C ~ 65°C |
| RPT-2016G-T-X4 | 16 x 10/100/1000T(x) Operating Temperature: -40°C ~ 75°C |
| RPT-2016G-I-X4 | 16 x 10/100/1000T(x), IEC 61850-3 Operating Temperature: -10°C ~ 65°C |
| RPT-2016G-I-T-X4 | 16 x 10/100/1000T(x), IEC 61850-3 Operating Temperature: -40°C ~ 75°C |