



28-port L3 10GbE Fiber Switch

TS-3016GS-8GC-4XS

28-port Layer 3 Managed 10GbE Fiber Switch

Full Gigabit Ethernet Fiber Switch with 10Gbps fiber uplink interfaces

Overview

Teroline's TS-3016G-8GC-4XS is a Layer 3 managed full Gigabit Ethernet Switch with 16 x 100/1000Base-X SFP + 8 x 1GbE Combo, and 4 x 1G/2.5G/10GbE SFP+ ports. It is featured with dynamic L3 routing and full L2 features such as VLAN, QoS, IGMP, Port Mirroring, LLDP, security, G.8032 ERPS ring protection and IPv4/6 based network management.

TS-3016G-8GC-4XS is an ideal solution featured with wire-speed high-performance switching capability for small and medium enterprises as well as cost efficient L2/L3 WAN access application scenarios. Designed with a built-in wide-range AC power supply and standard 1RU 19-inch pizzabox, it's environment-friendly with a controllable fan for energy-saving and noise reduction. It supports various means of configuration and management, including CLI, secure web and standard SNMP, thus applicable for various SME L2/L3 cost-efficient leased-line service access and Active Ethernet based FTTB/FTTC residential broadband access scenarios.

Key features

- > 4 x 1G/2.5G/10GbE SFP+ fiber interfaces, 16 x 100/1000BASE-X SFP + 8 x 1GbE Combo LAN interfaces, one RJ45 Console interface
- > Dynamic L3 routing and full L2 switching functions and IPv4/IPv6 network management
- > ITU-T G.8032 standard ERPS Ring with sub-20ms switchover time
- > Up to 10K Bytes Jumbo Frame support
- > Various configuration and management ways such as CLI/web/SNMP
- > 1RU 19" rack mounted, wide-range AC power supply
- > 6KV/4KV surge protection on power and Ethernet LAN ports respectively
- > Controllable fan speed for energy saving and noise reduction

Specifications

| | | | |
|---------------------------------|---|--|-------------------------------------|
| Interface Specifications | Fiber port | 4 * 1G/2.5G/10GbE SFP+ 16 * 100/1000Base-X SFP 8 * 1000Base-X SFP (in Combo) | |
| | Copper port | 8 * 10/100/1000Base-T (RJ45 in Combo) | |
| | Management Port | 1 * RJ45 Console | |
| | Reset button | Reset the switch to factory default | |
| Power Specifications | Input voltage | 100-240VAC, 50/60Hz Built-in power supply | |
| | Power consumption | ≤ 25W (full load) | |
| | Over-voltage protection | Supported | |
| | Over-current protection | Supported | |
| LED Indicators | 1 – PWR (Green) | Power on indicator | |
| | 2 – SYS (Green) | System working status indicator | |
| | 3 – LNK/ACT (Green) | RJ45 port link up/down/act indicator per port | |
| | 4 – SPEED (Yellow) | RJ45 port speed indicator per port | |
| | 5 – LNK/ACT (Green) | SFP port link up/down/act indicator per port | |
| Specifications | Switching capacity | 128Gbps | |
| | Packet forwarding rate | 95Mpps | |
| | MAC address table | 16K | |
| | VLAN | 4K | |
| | Buffer | 12Mb | |
| | Forwarding delay | < 5us | |
| | Jumbo frame | 10K bytes | |
| | Auto MDI/MDIX | Supported | |
| | Watchdog | Supported | |
| | L2 Switching | Link Aggregation | Static and dynamic Link Aggregation |
| | | Port-based Features | IEEE 802.3x flow control |
| Port-based traffic statistics | | | |
| Port isolation | | | |
| Broadcast storm control | | | |
| VLAN | | Access, trunk and hybrid mode VLAN tagging based on MAC/IP/protocol Port-based Q-in-Q Flexible Q-in-Q | |
| Port Mirroring | | Multiple to one port mirroring | |
| Ring Protection | | STP/RSTP/MSTP ITU-T G.8032 ERPS, sub-20ms switchover time | |
| DHCP | | DHCP Client DHCP Snooping | |
| Multicast | | IGMPv1, v2 & v3 IGMP Snooping | |
| ACL | ACL policies based on MAC/IP | | |
| Quality of Service (QoS) | Ingress/egress port-based rate-limiting QoS class remarking Support policy-based QoS SP and WRR queue scheduling | | |
| Security | IEEE 802.1x port/MAC authentication RADIUS | | |

| | | |
|-----------------------------|--------------------------------|---|
| | | IP Source Guard, port/MAC/IP binding ARP inspection and filtering |
| | Management and Maintenance | HTTP/HTTPS web management SNMPv1/v2c/v3 support Support IPv6 for management Syslog and alarm classification Support RMON Support LLDP Support NTP Support optic transceiver DDM Support Ping/Tracert for diagnosis Support Telnet and SSH connection Support TFTP and web for upgrade |
| L3 Routing | ARP | ARP table aging |
| | Routing entry | 13K |
| | IPv4/IPv6 | Static routing |
| | ECMP | ECMP ECMP max next-hop configuration Capacity balanced configuration |
| | Route policy | IPv4 prefix-list |
| | Redundancy | Support VRRP |
| | IP Routing Protocol | RIP v1/v2 OSPF v2 IS-IS v4 BGP4, supporting routing recursive ECMP Viewing the number of neighbors and states |
| Standards | IEEE 802.3 | 10BASE-T |
| | IEEE 802.3u | 100BASE-TX |
| | IEEE 802.3ab | 1000BASE-T |
| | IEEE 802.3z | 1000Base-X |
| | IEEE 802.3x | Full-duplex flow control |
| | IEEE 802.1d/w | Spanning Tree/Rapid Spanning Tree |
| | IEEE 802.1Q | VLAN |
| | IEEE 802.1X | Port Authentication |
| | IEEE 802.1ab | LLDP |
| | IEEE 802.3ad | LACP |
| | ITU-T G.8032 | ERPS |
| Environment | Operating temperature | 0°C to +50°C |
| | Storage temperature | -40°C to +85°C |
| | Relative humidity | 5% to 95% (non-condensing) |
| | Thermal design | Controllable fans |
| | MTBF | 100,000 hours |
| Standards compliance | Power port surge protection | IEC 61000-4-5 6KV (8/20us) |
| | Ethernet port surge protection | IEC 61000-4-5 Level 4: 4KV (10/700us) |
| | EMI | FCC Part 15B Class A |
| | Certifications | CE, FCC, RoHS |
| Physical parameters | Dimensions | 440(W)*245(D)*44(H)mm |
| | Installation Method | 19-inch 1RU rack mounted |
| Warranty | Standard Warranty | 2 years |

Ordering information

| Model | Description |
|-------------------|---|
| TS-3016GS-8GC-4XS | L3 managed 10Gigabit Ethernet Switch, 16x100/1000Base-X SFP + 8x1GbE Combo, and 4x1G/2.5G/10GbE SFP+ ports, AC100-240V, 50/60Hz power supply, 19-inch 1RU rack mounted, operation temperature: 0°C to +50°C |