



**10-port L2 Gigabit Ethernet PoE Switch**

## TS-2008GP-2DGS

10-port Layer 2 Managed Gigabit Ethernet PoE Switch

*Full Gigabit Ethernet Switch with 1G/2.5Gbps fiber uplink interfaces*

### Overview

Teroline's TS-2008GP-2DGS is a Layer 2 managed full Gigabit Ethernet Switch with 8 x 10/100/1000Base-T RJ45 PoE ports and 2 x 1G/2.5GbE SFP ports. It is featured with full L2 features such as VLAN, QoS, IGMP, Port Mirroring, LLDP, security, G.8032 ERPS ring protection and IPv4/6 based network management.

TS-2008GP-2DGS is an ideal solution featured with wire-speed high-performance switching capability for small and medium enterprises as well as cost efficient L2 WAN access application scenarios. Designed with 52VDC external power adapter and compact form factor, it's environment-friendly with a fan-less enclosure for energy-saving and natural heat dissipation. It supports various means of configuration and management, including CLI, secure web and standard SNMP, thus applicable for various SME L2 cost-efficient leased-line service access, video surveillance and Active Ethernet based FTTB/FTTC residential broadband access scenarios.

### Key features

- > 2 x 1G/2.5GbE SFP fiber interfaces and 8 x 10/100/1000BASE-T RJ45 PoE LAN interfaces, one RJ45 Console interface
- > Full L2 switching functions and IPv4/IPv6 network management
- > ITU-T G.8032 standard ERPS Ring with sub-20ms switchover time
- > Up to 30W 802.3af/at PoE+ output per port with watchdog function
- > Up to 10K Bytes Jumbo Frame support
- > Various configuration and management ways such as CLI/web/SNMP
- > Desktop, Fan-less design without acoustic noise
- > 4KV surge protection on Ethernet LAN ports

## Specifications

|                                 |                         |   |
|---------------------------------|-------------------------|---|
| <b>Interface Specifications</b> | Fiber port              | 2 * 1G/2.5GbE SFP   |
|                                 | Copper port             | 8 * 10/100/1000Base-T PoE (RJ45)  |
|                                 | Management Port         | 1 * RJ45 Console  |
|                                 | Reset button            | Reset the switch to factory default   |
| <b>Power Specifications</b>     | Input voltage           | 52VDC, external power adapter   |
|                                 | Power consumption       | ≤ 120W with PoE (full load)   |
|                                 | Over-voltage protection | Supported on power adapter  |
| <b>LED Indicators</b>           | 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 – PoE (Yellow)        | RJ45 PoE status indicator per port  |
|                                 | 5 – LNK/ACT (Green)     | SFP port link up/down/act indicator per port  |
| <b>Specifications</b>           | Switching capacity      | 20Gbps  |
|                                 | Packet forwarding rate  | 14.88Mpps   |
|                                 | MAC address table       | 16K   |
|                                 | VLAN                    | 4K  |
|                                 | Buffer                  | 12Mb  |
|                                 | Forwarding delay        | < 5us   |
|                                 | Jumbo frame             | 10K bytes   |
|                                 | Auto MDI/MDIX           | Supported   |
|                                 | Watchdog                | Supported   |
|                                 | <b>L2 Switching</b>     | 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<br>VLAN tagging based on MAC/IP/protocol<br>Port-based Q-in-Q<br>Flexible Q-in-Q            |
| Port Mirroring                  |                         | Multiple to one port mirroring  |
| Ring Protection                 |                         | STP/RSTP/MSTP<br>ITU-T G.8032 ERPS, sub-20ms switchover time  |
| DHCP                            |                         | DHCP Client<br>DHCP Snooping  |
| Multicast                       |                         | IGMPv1, v2 & v3<br>IGMP Snooping  |
| ACL                             |                         | ACL policies based on MAC/IP  |
| Quality of Service (QoS)        |                         | Ingress/egress port-based rate-limiting<br>QoS class remarking<br>Support policy-based QoS<br>SP and WRR queue scheduling |
| Security                        |                         | IEEE 802.1x port/MAC authentication<br>RADIUS<br>IP Source Guard, port/MAC/IP binding<br>ARP inspection and filtering     |

|                                   |  |
|-----------------------------------|--|
| <b>Management and Maintenance</b> | <p>HTTP/HTTPS web management</p> <p>SNMPv1/v2c/v3 support</p> <p>Support IPv6 for management</p> <p>Syslog and alarm classification</p> <p>Support RMON</p> <p>Support LLDP</p> <p>Support NTP</p> <p>Support optic transceiver DDM</p> <p>Support Ping/Tracert for diagnosis</p> <p>Support Telnet and SSH connection</p> <p>Support PoE management</p> <p>Support TFTP and web for upgrade</p> |
|-----------------------------------|--|

|                             |                                |                                       |                |
|-----------------------------|--------------------------------|---------------------------------------|----------------|
| <b>Standards</b>            | 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                                  |                |
|                             | IEEE 802.3af/at                | PoE/PoE+                              |                |
|                             | <b>Environment</b>             | Operating temperature                 | 0°C to +50°C   |
|                             |                                | Storage temperature                   | -40°C to +85°C |
| Relative humidity           |                                | 5% to 95% (non-condensing)            |                |
| Thermal design              |                                | Fan-less, natural heat dissipation    |                |
| MTBF                        |                                | 100,000 hours                         |                |
| <b>Standards compliance</b> | Ethernet port surge protection | IEC 61000-4-5 Level 4: 4KV (10/700us) |                |
|                             | EMI                            | FCC Part 15B Class A                  |                |
|                             | Certifications                 | CE, FCC, RoHS                         |                |
| <b>Physical parameters</b>  | Dimensions                     | 152(W)*115(D)*44(H)mm                 |                |
|                             | Installation Method            | Desktop                               |                |
| <b>Warranty</b>             | Standard Warranty              | 2 years                               |                |

## Ordering information

| Model          | Description  |
|----------------|--|
| TS-2008GP-2DGS | L2 managed Gigabit Ethernet PoE Switch, 8x10/100/1000Base-T RJ45 PoE + 2x1G/2.5GbE SFP ports, DC 52V power adapter, 120W consumption, desktop, operation temperature: 0°C to +50°C |