



**SMART WIRED TECH**  
D I S T R I B U C I O N E S

BOX

SWT TO-2008GPH-2GS-300

RANGE



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| Model              | Description  |
|--------------------|--|
| TO-2008GPH-2GS-300 | IP66 Waterproof box 500(H)*380(W)*220(D), including one built-in 10-port L2 managed Gigabit Ethernet PoE Switch, 8x10/100/1000Mbps PoE + 2xGbE SFP ports, supporting power backup function for the switch.<br>1pcs built-in 300W power adaptor;<br>1pcs AC output power socket (EU type);<br>2pcs 4-port SC fiber tray;<br>1pcs circuit breaker;<br>1pcs surge protector;<br>1pcs cooling fan;<br>1pcs switch button;<br>1pcs Din-Rail rack. |



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# BOX RANGE

## SWT TO-2008GPH-2GS-300



### Overview

Teroline's TO-2008GPH-2GS-300 is a managed Outdoor Industrial Ethernet Switch with 8 x 10/100/1000Base-T PoE+ (max 2 ports supporting 90W PoE++) ports and 2 x 1000Base-X SFP ports. The switch is designed inside an outdoor cabinet with IP66 protection level, which can be flexibly mounted on poles, walls and other racks near surveillance cameras. It is featured with full L2 features such as VLAN, QoS, Multicast, Port Mirroring, LLDP, security, Spanning Tree and ITU-T G.8032 ERPS ring protection, PoE management and SNMP network management.

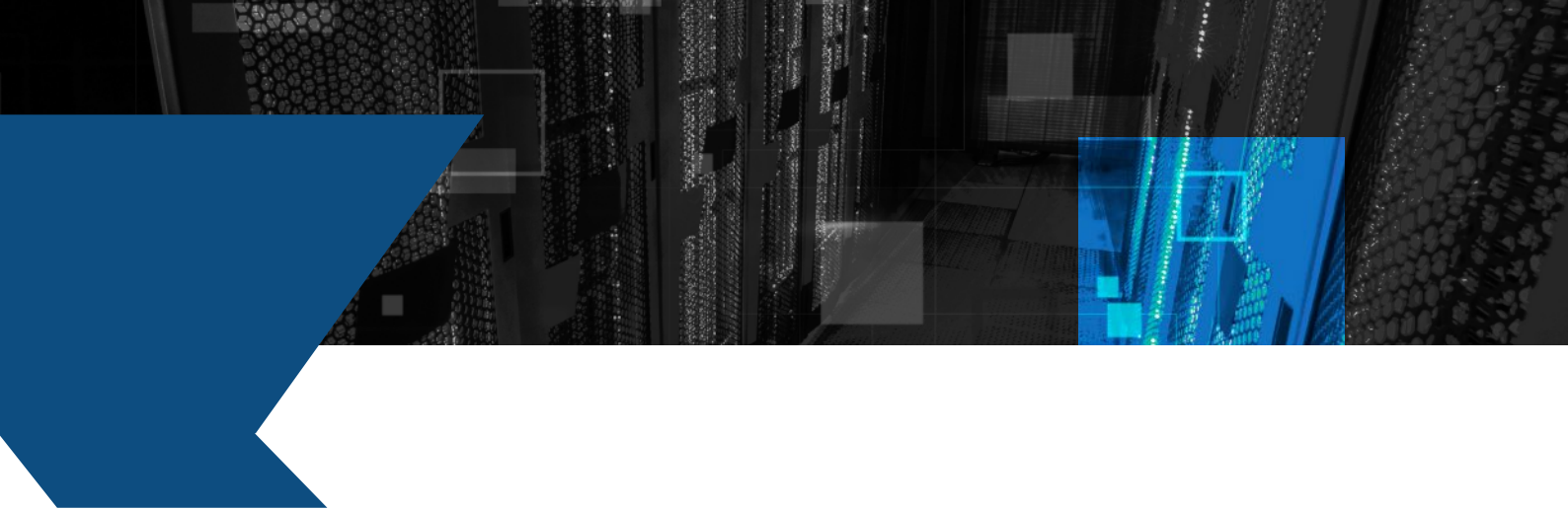
TO-2008GPH-2GS-300 cabinet is integrated with a fiber tray, an air circuit breaker, a surge protector and a cooling fan to operate at extended temperature from -40°C to 70°C with anti-corrosion treatment. It is a powerful and easy-to-deploy solution for most industrial environment, such as manufacturing, transportation, electricity, oil & gas, chemistry, video surveillance and other various industry automation networks.

### Key features

- > 2 x 1000Base-X SFP fiber interfaces, 8 x 10/100/1000BASE-T RJ45 PoE LAN interfaces and 1 x RJ45 console port
- > Standard ITU-T G.8032 ERPS ring protection, sub 20ms switchover time
- > Full L2 switching functions and network management
- > 802.3bt 90W on first 2 ports, 802.3af/at 30W PoE+ on all ports, total 170W budget
- > IP66 protection level, pole and wall mounted
- > 6KV surge protection; ESD: 6KV/contact, 8KV/air protection
- > Supporting DC12V battery power backup for industrial switch (not included)
- > Operation temperature from -40 to +70°C

### Specifications

|                                     |                 |  |
|-------------------------------------|-----------------|--|
| <b>Smart Cabinet Specifications</b> | Power input     | AC 220V (100-240V) mains power input<br>300W DC52V power adapter built-in  |
|                                     | AC output       | 1 * AC power outlet socket (EU type)   |
|                                     | DC output       | 1 * DC12V output in terminal block   |
|                                     | Fiber tray      | 2 * 4-port fiber tray, SC connector (LC optional)  |
| <b>Interface Specifications</b>     | Accessory       | 1 * Din-rail rack<br>1 * metal tray  |
|                                     | Fiber port      | 2 * 1000Base-X SFP   |
|                                     | Copper port     | 8 * 10/100/1000Base-T PoE (RJ45)<br>Port 1 & 2 supporting max 90W output<br>Port 3 - 8 supporting max 30W output |
|                                     | Management Port | 1 * RJ45 Console serial (38400 baud, 8, N, 1)<br>1 * Reset button (short to reset, long to restore)              |



|                             |                          |   |
|-----------------------------|--------------------------|---|
| <b>Power Specifications</b> | Input voltage            | 100-240VAC, 50/60Hz mains input   |
|                             | Power consumption        | ≤ 15W without PoE (full load)<br>≤ 285W PoE budget  |
|                             | Over-voltage protection  | Supported   |
|                             | Over-current protection  | Supported   |
| <b>LED Indicators</b>       | 1 – PWR (Red)            | Power on indicator  |
|                             | 2 – LNK/ACT (Green)      | RJ45 port link up/down/act indicator per port   |
|                             | 3 – PoE (Yellow)         | RJ45 port PoE status indicator per port   |
|                             | 4 – 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        | 8K  |
|                             | VLAN                     | 4K  |
|                             | Buffer                   | 1Mb   |
|                             | Forwarding delay         | < 5us   |
|                             | Auto MDI/MDIX            | Supported   |
| <b>L2 Switching</b>         | Link Aggregation         | Static and dynamic Link Aggregation<br>LACP with load balancing (source/dest MAC/IP)<br>Max 8 ports per group, max 8 groups                 |
|                             | Port-based Features      | IEEE 802.3x flow control<br>Port-based traffic statistics<br>Port isolation<br>Broadcast storm control                                      |
|                             | VLAN                     | Access, trunk and hybrid mode<br>4K active VLANs simultaneously<br>802.1Q/Port/Private VLAN<br>Voice VLAN<br>Port-based Q-in-Q<br>GARP/GVRP |
|                             | Port Mirroring           | Multiple to one port mirroring  |
|                             | Ring Protection          | ITU-T G.8032 ERPS, STP/RSTP/MSTP<br>Loop Guard/Root Guard<br>BPDU Guard/Filter  |
|                             | DHCP                     | DHCP Client/Relay<br>DHCP Snooping<br>DHCP Option 82  |
|                             | Multicast                | 256 multicast groups<br>Static multicast groups<br>Fast Leave<br>IGMPv1, v2 & v3<br>Multicast VLAN/Filter<br>IGMP/MLD Snooping              |
|                             | ACL                      | Up to 64 ACL policies<br>ACL policies based on MAC/IP/TCP/UDP   |
|                             | Quality of Service (QoS) | Port-based rate-limiting<br>Flow marking based on port/CoS/DSCP<br>Up to 4 priority queues<br>SP, WRR and SP+WRR queue scheduling           |



|                             |                                |   |
|-----------------------------|--------------------------------|---|
|                             | Security                       | IEEE 802.1x port/MAC authentication<br>RADIUS and TACACS+ authentication<br>IP Source Guard, port/MAC/IP binding<br>ARP inspection and filtering (MAC/IP/TCP/UDP)<br>Anti-DoS (Denial of Service)<br>DHCP Filter<br>Guest VLAN<br>SSLv2/SSLv3/TLSv1 support   |
|                             | PoE Management                 | Total power consumption control<br>PoE ON/OFF control per port<br>Priority port output  |
|                             | Management and Maintenance     | HTTP/HTTPS web management<br>SNMPv1/v2c/v3 support<br>CPU and memory monitoring<br>Syslog and alarm classification<br>Support RMON 4 groups<br>Support LLDP<br>Support NTP/SNTP<br>Support optic transceiver DDM<br>Support Ping/Tracert for diagnosis<br>Support Console, Telnet and SSHv1/v2 CLI<br>Support Console, TFTP and web for upgrade |
| <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/s                | STP/RSTP/MSTP   |
|                             | IEEE 802.1Q                    | VLAN  |
|                             | IEEE 802.1X                    | Port Authentication   |
|                             | IEEE 802.1ab                   | LLDP  |
|                             | IEEE 802.3ad                   | LACP  |
| <b>Environment</b>          | Operating temperature          | -40°C to +70°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> | Power surge protection         | IEC 61000-4-5 (6KV/4KV) (8/20us)  |
|                             | Ethernet port surge protection | IEC 61000-4-5 (6KV/2KV) (10/700us)  |
|                             | ESD                            | IEC 61000-4-2 Level 4 (6K/8K)   |
|                             | RS                             | IEC 61000-4-3 80MHz-1GHz: 10V/m   |
|                             | Shock                          | IEC 60068-2-27  |
|                             | Free fall                      | IEC 60068-2-32  |
|                             | Vibration                      | IEC 60068-2-6   |
|                             | EMI                            | FCC Part 15B Class A  |
|                             | Certifications                 | CE, FCC, RoHS   |
|                             | Dimensions                     | 380(W)*220(D)*500(H) mm   |
| <b>Physical parameters</b>  | Weight                         | Net weight 10KG   |
|                             | Protection Level               | IP66  |
|                             | Installation Method            | Pole/Wall mount   |



## Physical dimensions

