

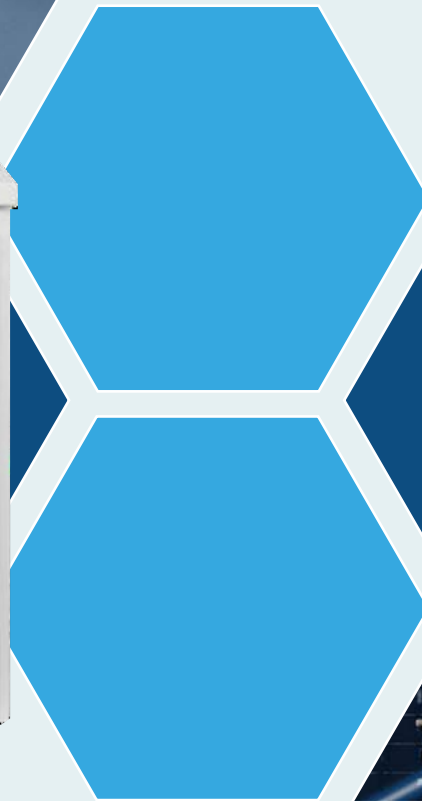


SMART WIRED TECH
D I S T R I B U C I O N E S

SWT TO-2008GP-2GS-solar-S

BOX

RANGE



SWT TO-2008GP-2GS-solar-S

- TO-2008GP-2GSsolar-S IP55 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, 170W PoE budget, supporting power backup function for the switch.
- 1pcs 2.4-inch LED display;
 - 1pcs cooling fan;
 - 1pcs Air-breaker;
 - 1pcs Surge protector;
 - 1pcs MPPT controller;
 - 1pcs 4-port SC optical fiber tray;
 - 1pcs DC12V to DC48V voltage booster;
 - 1pcs Smart Control Card;
 - 1pcs battery tray (battery not included).



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BOX RANGE

SWT TO-2008GP-2GS-solar-S



Overview

Teroline's TO-2008GP-2GS-solar-S is a L2 Outdoor Industrial Ethernet Switch with 8 x 10/100/1000Base-T PoE+ (Port 1 & 2 up to 90W PoE++) ports and 2 x 1000Base-X SFP ports. The switch is designed inside an outdoor cabinet with IP55 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.

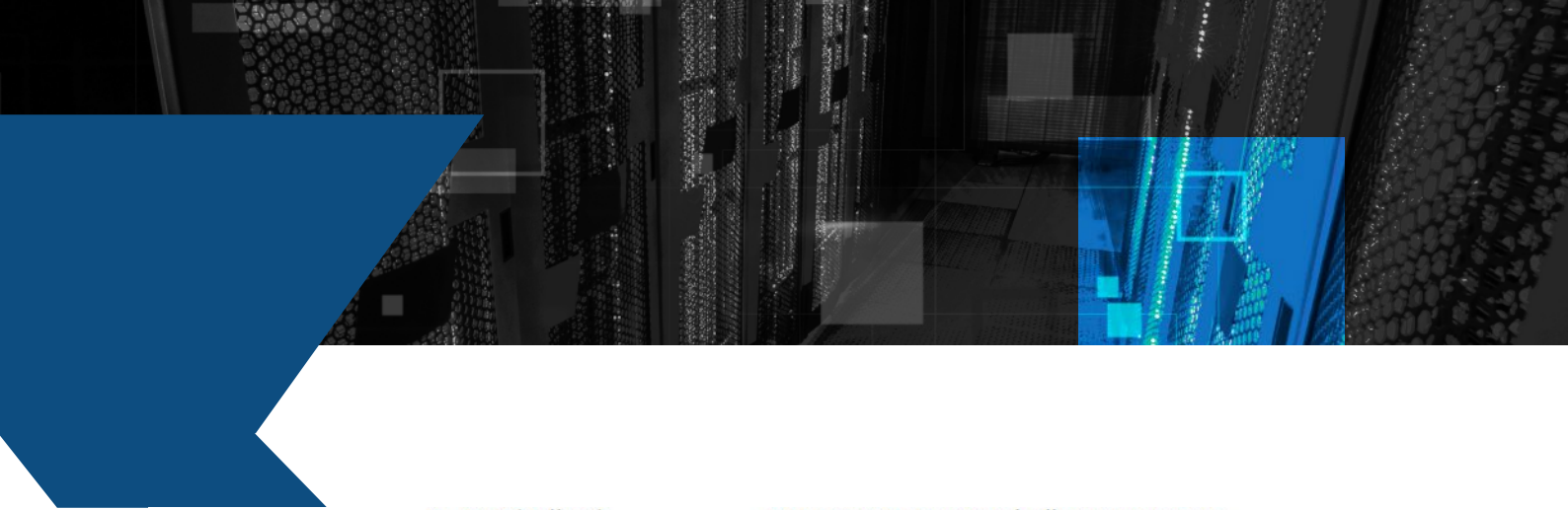
TO-2008GP-2GS-solar-S cabinet is integrated with a fiber tray, an air circuit breaker, a surge protector and a cooling fan to operate at extended temperature from -40°C to 70°C with anti-corrosion treatment. It is a powerful and easy-to-deploy solution for most industrial environment, such as manufacturing, 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
- > IP55 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

Interface Specifications	Fiber port	2 * 1000Base-X SFP
	Copper port	8 * 10/100/1000Base-T PoE (RJ45) Port 1 & 2 supporting max 90W output Port 3 - 8 supporting max 30W output
	Management Port	1 * RJ45 Console 1 * Reset button (short to reset, long to restore)
Power Specifications	Input voltage	100-240VAC, 50/60Hz mains input 200W DC52V power module built-in
	Power consumption	≤ 15W without PoE (full load) ≤ 185W with PoE (full load)
	Over-voltage protection	Supported
	Over-current protection	Supported
LED Indicators	Battery backup	DC12V/24V Lead-acid/Lithium (not included)
	1 - PWR (Red)	Power on indicator
	2 - LNK/ACT (Green)	RJ45 port link up/down/act indicator per port



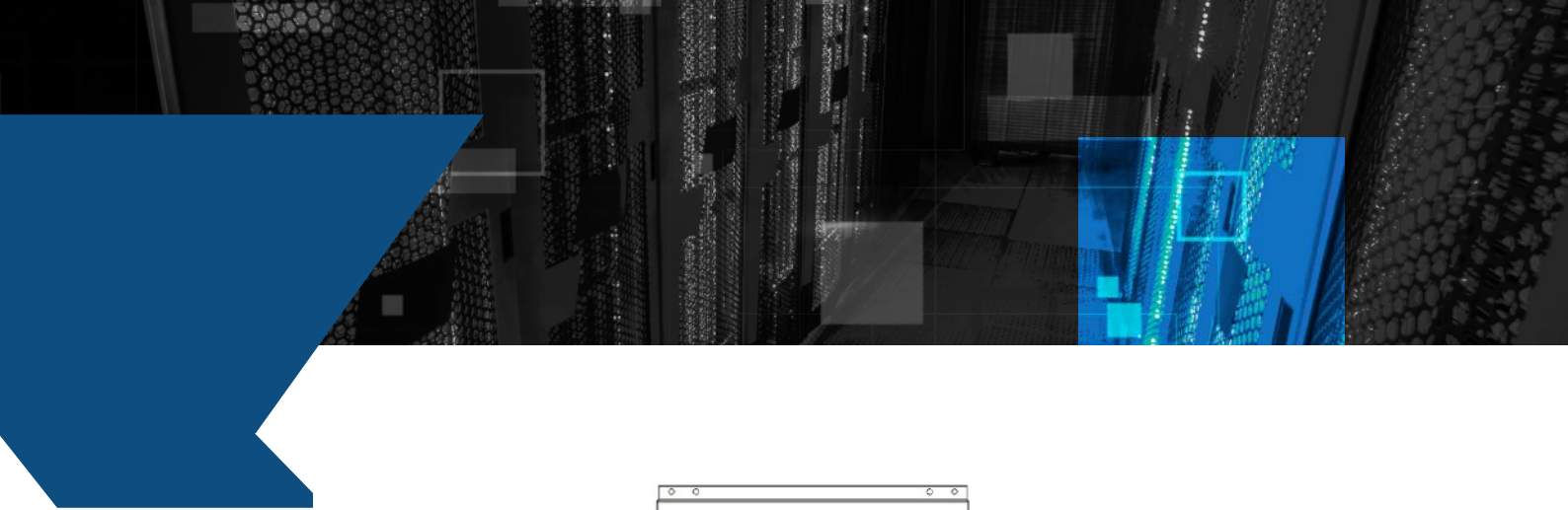
	3 - PoE (Yellow)	RJ45 port PoE status indicator per port
	4 - LNK/ACT (Green)	SFP port link up/down/act indicator per port
Specifications	Switching capacity	20Gbps
	Packet forwarding rate	14.88Mpps
	MAC address table	8K
	VLAN	4K
	Buffer	1Mb
	Forwarding delay	< 5us
	Auto MDI/MDIX	Supported
	L2 Switching	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 4K active VLANs simultaneously 802.1Q/Port/Private VLAN Voice VLAN Port-based Q-in-Q GARP/GVRP
	Port Mirroring	Multiple to one port mirroring
	Ring Protection	ITU-T G.8032 ERPS, STP/RSTP/MSTP Loop Guard/Root Guard BPDU Guard/Filter
	DHCP	DHCP Client/Relay DHCP Snooping DHCP Option 82
	Multicast	256 multicast groups Static multicast groups Fast Leave
	ACL	IGMPv1, v2 & v3 Multicast VLAN/Filter IGMP/MLD Snooping
	Quality of Service (QoS)	Up to 64 ACL policies ACL policies based on MAC/IP/TCP/UDP Port-based rate-limiting Flow marking based on port/CoS/DSCP Up to 4 priority queues SP, WRR and SP+WRR queue scheduling
	Security	IEEE 802.1x port/MAC authentication RADIUS and TACACS+ authentication IP Source Guard, port/MAC/IP binding ARP inspection and filtering (MAC/IP/TCP/UDP) Anti-DoS (Denial of Service) DHCP Filter Guest VLAN SSLv2/SSLv3/TLSv1 support
	PoE Management	Total power consumption control PoE ON/OFF control per port Priority port output



Management and Maintenance

- HTTP/HTTPS web management
- SNMPv1/v2c/v3 support
- CPU and memory monitoring
- Syslog and alarm classification
- Support RMON 4 groups
- Support LLDP
- Support NTP/SNTP
- Support optic transceiver DDM
- Support Ping/Tracert for diagnosis
- Support Console, Telnet and SSHv1/v2 CLI
- Support Console, TFTP and web for upgrade

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/s	STP/RSTP/MSTP
	IEEE 802.1Q	VLAN
	IEEE 802.1X	Port Authentication
	IEEE 802.1ab	LLDP
	IEEE 802.3ad	LACP
Environment	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
Standards compliance	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
Physical parameters	Weight	Net weight 15KG
	Protection Level	IP66
	Installation Method	Pole/Wall mount



Physical dimensions

