10 Port Full Gigabit Managed Industrial Ethernet Switch
with 8 IEEE 802.3 af/at PoE+ ports
ESWGP510-2SFP-T

B+B SMARTWORX
Powered by **ADVANTECH**

PRODUCT FEATURES

- IEEE 802.3at/af PoE+ standard ports
- Up to 30 watts output per PoE+ port
- Smart PoE+ over current, over temp & short circuit protection
- -40° to 85°C operating temperature range
- Ring On redundant rapid recovery system, 15 mS
- Rapid spanning tree protocol recover system
- IGMP with query mode for multimedia application
- Port mirroring for diagnostics
- Industrial IP30 rated DIN rail enclosure
- SFP slots for Gigabit Ethernet Fiber
- Dual power inputs, 44 to 57 VDC

The **ESWGP510-2SFP-T** is a fully managed, full Gigabit PoE+ industrial switch, with eight (8) 802.3 af/at compliant Ethernet ports. The switch provides up to 30 Watts of power per port and offers two (2) SFP slots for Gigabit fiber or copper SFPs.

The **ESWGP510-2SFP-T** is perfect for high bandwidth applications such as CCTV and IEEE 802.11ac Wi-Fi, and where reliability and managability are required in industrial or hard to reach places. With two (2) gigabit SFP slots this switch provides the flexibility and capability of redundancy and daisy chain networks. The SFP ports support both copper and fiber SFPS. 100Mbps SFPs are not supported.

Power over Ethernet PoE+ 802.3at provides 30W of power per port and is backwards compatible with 802.3.af devices. The switch detects and classifies a PD device before providing the required power to the PD device. PoE power simplifies the installation of PD devices by eliminating the need for additional cable and power supplies.

VLAN Configuration: A Virtual LAN (VLAN) is a logical network grouping that limits the broadcast domain. This allows you to isolate network traffic so that members of a VLAN will only receive traffic from other members of the same VLAN. Creating a VLAN from a switch is the logical equivalent of reconnecting a group of network devices to another Layer 2 switch. However, since it is a virtual network, the network devices remain physically connected to the same switch. Both port-based and 802.1Q (tagged-based) VLAN are supported.
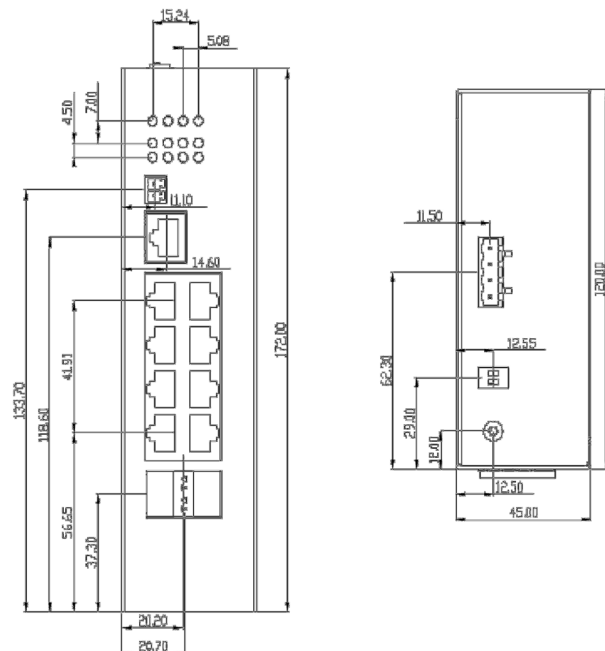
RingOn Technology: Two ports can be used for network redundancy by implementing RingOn technology. This provides a rapid recovery system for industrial networks. If any part of the ring disconnects, the network communications will automatically be restored**.**

Wide Operating Temperature: With an operating temperature of -40 to 85°C (-40 to 185°F), this switch is suitable for use in some of the harshest industrial environments.

Remote PoE+ Reset: Dip switch selectable, the PoE+ reset works on fiber loss off signal on both slots. PoE+ reset is an advanced function that, when enabled, will force the PSE output power to reset when LINK state is lost on the SFP ports

Easy Troubleshooting: LED indicators allow you to quickly diagnose and correct problems and ensure that your network remains reliable.

ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
ESWGP510-2SFP-T	Industrial Gigabit PoE+ Ethernet Switch (8 Copper, 2 SFP)

NOTE: Gigabit MSA-Compliant SFPs can be installed for CWDM and SSF. Call for details.

ACCESSORIES

808-38201	IE-SFP/1250-ED, MM850-LC, 220/550m
808-38200	IE-SFP/1250-ED, SM1310-LC, 20km
808-38203	IE-SFP-1250-ED, SM1310/PLUS-LC, 40km
SDR-240-48	48VDC DIN rail mount power supply

MECHANICAL DIAGRAM

ESWGP510-2SFP-T_2517ds
All product specifications are subject to change without notice.

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SPECIFICATIONS

TECHNOLOGY	
IEEE Standard	IEEE802.3af/at, 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.1w, 802.1Q, 802.1p, 802.1D
Processing Type	Store and forward
MAC Address	8k
Packet Buffer Size	512KB
Jumbo Frame Size	Supports up to 16K at gigabit speed. 1518 bytes at 10,100Mbps
Broadcast Storm Control	Automatic Broadcast Control
Flow Control	Full Duplex Flow Control, Half Duplex Back Pressure Control
Features	• RingOn™ Redundant Ring Technology: Recovery time less than15ms • VLAN: Port Based VLAN, IEEE 802.1Q Tag VLAN • Port Trunking • Built-in Web Server, remote management and configuration through browser • Quality of Service : Determined by port, tag(CoS), and IPv4 different service(DSCP) • IGMP Snooping /GMRP • Static MAC Address Forwarding • SNMP V1/V2c/V3 • RSTP • LLDP • On-line Software Upgrading • Automatic warning by exception through e-mail or relay output • System Log • DHCP Client • Port Mirror: Supports TX, RX, and both packet • Broadcast storm control and Port-Based traffic control • IP Security: 10 IP address entries for permission to access management functions • PoE management

INTERFACES	
RJ45 Port	10/100/1000Base-T Auto-Negotiation, Full/Half Duplex, Auto-MDI/MDIX
Fiber Ports	1000Base slot for MSA-compliant SFPs
PoE+ Pinout	V+, V+, V-, V-, for pin 4, 5, 7, 8 Alternative A
Power Input Connection	Standard 4-pin dual power terminal blocks
Relay Output	Standard 2-pin terminal blocks
Console Port	RJ45
DIP Switch	DIP 1 = PoE ON/OFF Reset DIP 2 = PoE Auto Reset
LED Indicators	P1, P2, STA, Fault, POE+ (1~8)
Alarm	Relay, Email

POWER	
Input Voltage	44 to 57VDC, redundant power input
Power Budget	255 W

PHYSICAL CHARACTERISTICS	
Protection Level	IP30
Dimensions	45x172 x120 mm (WxHxD)
Installation	DIN Rail or Panel Mount

ENVIRONMENT CONDITIONS	
Operating Temperature	-40 to 85˚C
Ambient Relative Humidity	5 to 95% (Non-condensing)

MEANTIME BEFORE FAILURE (MTBF)	
MTBF	351,296 hours

STANDARDS AND CERTIFICATIONS	
Safety	IEC/UL/EN60950-1
EMI	CE, FCC Part 15, EN55022: Class A EN61000-6-4 (Industrial)
EMS	61000-4-2 (ESD) Level 4, 61000-4-3 (RS) Level 3 61000-4-4 (EFT) Level 3 61000-4-5 (Surge) Level 3, 61000-4-6 (CS) Level 3 61000-4-11 (Voltage dipss/interuptions) EN61000-6-2 (Industrial)
ROHS, REACH, WEEE	
Free Fall	60068-2-27
Shock	60068-2-32
Vibration	60068-2-6

WARRANTY	
Limited Lifetime	