

# 6 Port Full Gigabit Managed Industrial Ethernet switch with 4 IEEE 802.3 af/at PoE+ ports

## ESWGP506-2SFP-T

B+B SMARTWORX

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### PRODUCT FEATURES

The **ESWGP506-2SFP-T** is a fully managed, full Gigabit PoE+ industrial switch, with four (4) 802.3 at compliant Ethernet ports. The switch provides up to 30 Watts of power per port. Two (2) gigabit SFP slots can be used for multiple applications at a single location to make better use of fiber infrastructure.

The **ESWGP506-2SFP-T** is perfect for high bandwidth applications such as CCTV and IEEE 802.11ac Wi-Fi, and where reliability and manageability 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.

**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.

Advanced software controlled PoE+ port priority allows for better management of PD devices.

**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.

- 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, 24 to 52 VDC
- PoE+ port priority management

### ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
ESWGP506-2SFP-T	Industrial Gigabit PoE+ Ethernet Switch (4 Copper, 2 SFP)

NOTE: Other MSA-compliant gigabit SFPs can be installed, such as CWDM and SSF SFPs.

### ACCESSORIES

MODEL NUMBER	DESCRIPTION
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-240-24	DIN rail mount power supply 24VDC, 10A, 240W output power

### 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 dips/interruptions) 1. EN61000-6-2 (Industrial)

ROHS, REACH, WEEE

Free Fall 60068-2-27

Shock 60068-2-32

Vibration 60068-2-6

RoHS, REACH, WEEE

### WARRANTY

Limited Lifetime

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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	4k
Packet Buffer Size	128KB
Jumbo Frame Size	Supports up to 9720 bytes
Broadcast Storm Control	Automatic Broadcast Control
Flow Control	Full Duplex Flow Control, Half Duplex Back Pressure Control
Jumbo Frame Size	Supports up to 9720 bytes <ul style="list-style-type: none"> <li>• RingOn™ Redundant Ring Technology: Recovery time less than 15ms</li> <li>• VLAN: Port Based VLAN, IEEE 802.1Q Tag VLAN</li> <li>• Port Trunking</li> <li>• Built-in Web Server, remote management and configuration through browser</li> <li>• TFTP</li> <li>• Quality of Service : Determined by port, tag(CoS), and IPv4 different service(DSCP)</li> <li>• IGMP Snooping /GMRP</li> <li>• Static MAC Address Forwarding</li> <li>• SNMP V1/V2c/V3</li> </ul>
Protocols and Functions	<ul style="list-style-type: none"> <li>• RSTP</li> <li>• LLDP</li> <li>• On-line Software Upgrading</li> <li>• Automatic warning by exception through e-mail or relay output</li> <li>• System Log</li> <li>• DHCP Client</li> <li>• Port Mirror: Supports TX, RX, and both packet</li> <li>• Broadcast storm control and Port-Based traffic control</li> <li>• IP Security: 10 IP address entries for permission to access management functions</li> <li>• Advanced PoE management</li> </ul>

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 1, 2, 3, 6 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+ (1~4)
Alarm	Relay, Email
POWER	
Input Voltage	24 to 52VDC, redundant power input
Power Budget	135 W
PHYSICAL CHARACTERISTICS	
Protection Level	IP30
Dimensions	45x145 x108 mm (WxHxD)
Installation	DIN Rail or Panel Mounting
ENVIRONMENT CONDITIONS	
Operating Temperature	-40 to 85°C
Ambient Relative Humidity	5 to 95% (Non-condensing)

### MECHANICAL DIAGRAM

