12 Port Full Gigabit Managed Industrial Ethernet switch with 8 IEEE 802.3 af/at PoE+ ports
ESWGP512-4SFP-T

PRODUCT FEATURES

- Managed Gigabit copper to fiber switch
- 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 mountable enclosure
- SFP slots for Gigabit Ethernet Fiber
- Dual power inputs, 44 to 57 VDC

The **ESWGP512-4SFP-T** is a fully managed, full Gigabit PoE+ industrial switch, with eight (8) 802.3 at compliant Ethernet ports. The switch provides up to 30 Watts of power per port. Four (4) gigabit SFP ports, supporting any MSA-Compliant SFPs, slots can be used for multiple applications at a single location to make better use of fiber infrastructure. The SFP ports support copper or fiber SFPs. 100Mbps SFPs are not supported.

The **ESWGP512-4SFP-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 four (4) gigabit SFP slots this switch provides more flexibility in network design and future proofs your installation for network expandability. Advanced software controlled PoE+ port priority allows for better management of PD devices.

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 breaks, 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.

ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
ESWGP512-4SFP-T	Industrial Gigabit PoE+ Ethernet Switch (8 Copper, 4 SFP)

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 - DIN rail mount power supply 48VDC

STANDARDS AND CERTIFICATIONS	
Safety	EN60950, UL60950, IEC60950
EMI	CE, FCC Part15, CISPR(EN55022) Class A
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)
ROHS, REACH, WEEE	
Free Fall	60068-2-27
Shock	60068-2-32
Vibration	60068-2-6

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 bytes at gigabit, 1518bytes at 10, 100Mbps
Broadcast Storm Control	Automatic Broadcast 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

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 B
Power Input Connection	Standard 4-pin dual power terminal blocks
Relay Output	Standard 2-pin terminal blocks
Console Port	RJ45
DIP Switch	PoE reset on SFP down - ON/OFF
LED Indicators	P1, P2, STA, Fault, POE+ (1~8)
Alarm	Relay, Email

POWER

Input Voltage	44 to 57VDC, redundant power input
Power Budget	325 W

PHYSICAL CHARACTERISTICS

Protection Level	IP30
Dimensions	45x173x120 mm (WxHxD)
Installation	DIN Rail or Panel Mounting

ENVIRONMENT CONDITIONS

Operating Temperature	-40 to 85°C
Ambient Relative Humidity	5 to 95%
Humidity	5 to 95%

MECHANICAL DIAGRAM

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