5 & 8 Port, Ultra Compact Industrial Ethernet Switches

ESW105 & ESW108 Series

PRODUCT FEATURES

- Ultra compact design - less than 1 inch wide
- UL/cUL Class I/Division 2 Groups A,B,C, and D
- Designed to meet Level 3 (Heavy) industrial environments - EN61000-6-2 Certifications
- Shock, vibration, free fall tested
- LC single and multi mode fiber ports
- 10/100M, full/half duplex, MDI/MDI-X (Auto-negotiate)
- Supports IEEE 802.3, 802.3u, and 802.3x standards
- IP30 rated DIN rail case with 6 different panel mount options
- Dual power inputs, 12 to 36 VDC and 10 to 24 VAC
- 2K MAC addresses

Designed to fit many applications, the ESW105 and ESW108 series are more than just an Ethernet switch with low pricing. They are plug-and-play industrial Ethernet Switches with an ultra compact IP30 DIN rail case, 6 way mountable panel brackets, LEDs for Power, (Link / Speed / Activity for each port), 12 to 36 VDC and 10 to 24 VAC power inputs with removable terminal blocks. These switches are perfect for any applications that require special protection from hash environments.

Choose a switch with five or eight copper ports, or a combination of copper and fiber ports. Multi-mode fiber models extend range up to 2 km. Single-mode fiber models extend range up to 20 km. All models require an external power supply (sold separately).

The switch ships with 4 panel mount clips giving the user 6 different ways to panel mount the unit.

ORDERING INFORMATION

MODEL NUMBER	10/100 COPPER	MULTI-MODE FIBER	SINGLE-MODE FIBER
ESW105	5		
ESW105-ML	4	1 (LC)	
ESW105-SL	4		1 (LC)
ESW108	8		
ESW108-ML	7	1 (LC)	
ESW108-SL	7		1 (LC)

ACCESSORIES

DFMM-SCSC-1M - Multi-Mode Duplex Fiber Cable, SC to SC, 1 Meter

MDR-20-24 - DIN rail mount power supply 24VDC, 1.0 A output power

MDR-40-24 - DIN rail mount power supply 24VDC, 1.7 A output power

EIRSP1 - Industrial DIN rail mount Ethernet Surge Suppressor

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SPECIFICATIONS

TECHNOLOGY	
Standards:	IEEE802.3, 802.3u, 802.3x
Processing Type:	Store and forward with IEEE802.3x full duplex, non-blocking flow control
Flow Control:	IEEE802.3x flow control, back pressure flow control
Packet Buffer Memory:	64K bytes
Address Table Size	2K MAC Addresses
INTERFACE	
RJ45 Ports:	10/100BaseT(X) auto negation, Full/Half duplex, auto MDI/MD-X
Fiber Ports:	100BaseFX, (multi-mode or single–mode with LC connectors)
LED Indicators:	Power, (Link / Speed / Activity for each port)
POWER	
Input Voltage	12 to 36 VDC and 10 to 24 VAC
Power Consumption	4.00 W Max
Input Connection	Removable Terminal Block
Protection	Reverse Polarity Protection
ENVIRONMENTAL	
Operating Temperature	-10 to 60°C (14 to 140°F)
Storage Temperature	-40 to 80°C (-40 to 176°F)
Humidity	10 to 95% Non-condensing
MTBF	200,000 hours
MTBF Calculation	Parts count reliability prediction
MECHANICAL	
Enclosure	IP30 DIN mount metal case
Dimensions (5 ports)	H 10.0 x W 2.5 x D 7.5 mm (3.94 x 0.98 x 2.95in)
Dimensions (8 ports)	H 145 x W 24 x D 75mm (5.71 X 0.94 x 2.95in)
Installation	35 mm DIN or 6 way panel mount

FIBER OPTICS				
Fiber Type	**Distance**	**Wavelength**	**Transmit Power**	**Receive Sensitivity**
Multi-mode	2 km	1310 nm	-. 23.5 to -. 14 dBm	≤ -. 35 dBm
Single-mode	20 km	1310 nm	-. 15 to -. 8 dBm	≤ -. 35 dBm
REGULATORY APPROVALS				
CE, FCC, RoHS				
HAZARDOUS LOCATIONS				
UL/cUL Class I Div 2 Groups A,B,C, and D				

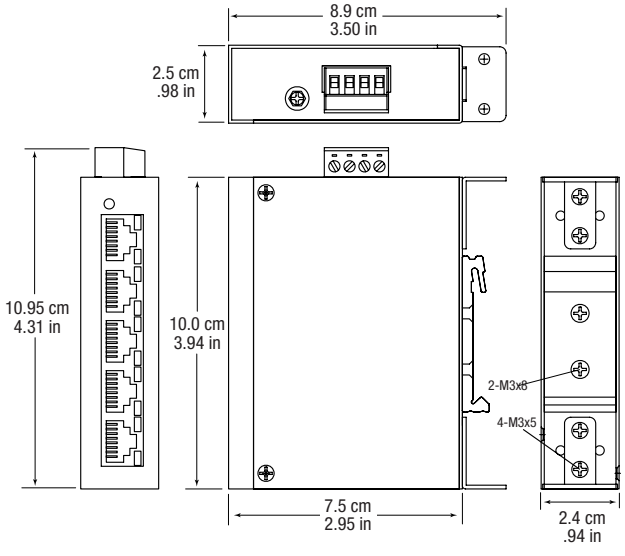
SPECIFICATIONS–LEVEL 3, EN 61000-6-2: 2006 GENERIC STANDARDS FOR (HEAVY) INDUSTRIAL ENVIRONMENTS

Test	Description	Test Level		Level
EN 55022: 2006 + A1:2007	Class B Emissions			
EN 61000-4-2: 2009	Electro-Static Discharge (ESD)	Enclosure Contact Enclosure Air	6kV 8kV	3 3
EN61000-4-3:2006+A1:2008	Radiated Field Immunity (RFI)	Enclosure Ports	10V/m	3
EN61000-4-4:2004	Burst (Fast Transient)	Signal Ports DC Ports	1kV@2.5Khz 2kV	3 3
EN61000-4-5:2006	Surge	Signal Ports DC Power Ports	1kV 2kV	3 3
EN61000-4-6: 2009	Induced (Conductive) RFI	Signal Ports DC Power Ports	10 V RMS 10 V RMS	3 3

ENVIRONMENTAL SPECIFICATIONS

TEST	DESCRIPTION	TEST LEVEL		LEVEL
IEC60068-2-6	Vibration	Test Fc	2G	-----
IEC60068-2-27	Shock	Test Ea	30G	-----
IEC 60068-2-32	Free Fall			-----

MECHANICAL DIAGRAM 5 PORT MODEL



MECHANICAL DIAGRAM 8 PORT MODEL