Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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-LCLC-3M - Multi-Mode Duplex Fiber Cable, LC to LC, 3 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

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

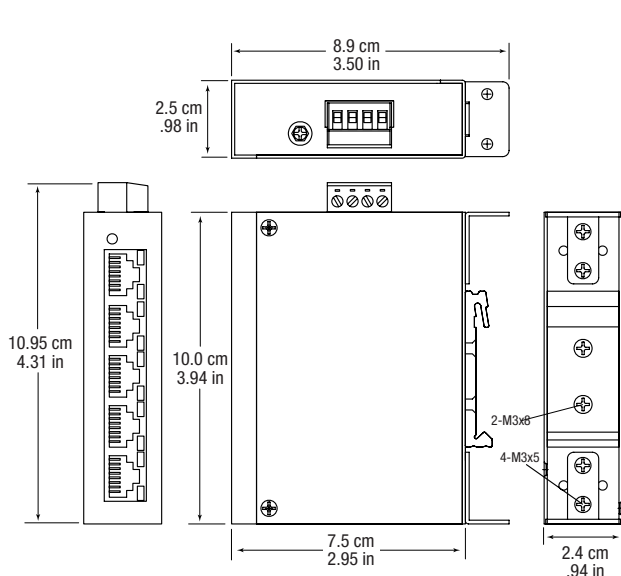### HAZARDOUS LOCATIONS
UL/cUL Class I Div 2 Groups A,B,C, and D

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	6kV	3
		Enclosure Air	8kV	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	1kV@2.5Khz	3
		DC Ports	2kV	3
EN61000-4-5:2006	Surge	Signal Ports	1kV	3
		DC Power Ports	2kV	3
EN61000-4-6: 2009	Induced (Conductive) RFI	Signal Ports	10 V RMS	3
		DC Power Ports	10 V RMS	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

8.9 cm / 3.50 in
2.5 cm / .98 in
10.95 cm / 4.31 in
10.0 cm / 3.94 in
2-M3x8
4-M3x5
7.5 cm / 2.95 in
2.4 cm / .94 in

MECHANICAL DIAGRAM
8 PORT MODEL

2.4 cm / .94 in
3.5 cm / 1.38 in
9.0 cm / 3.54 in
15.5 cm / 6.08 in
14.5 cm / 5.71 in
2-M3x8
4-M3x5
7.5 cm / 2.95 in