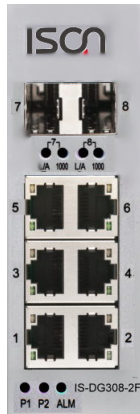# IS-DG308 Series

8 Giga ports unmanaged Layer 2 Industrial Ethernet Switch

ISON IS-DG308 series are full Gigabit unmanaged Ethernet Switches that providing 8 Gigabit ports forfill easy to use, plug &play applications. A full Gigabit network provides higher throughput than legacy Fast Ethernet network. With easy to use, cost effective unmanaged switch, user can easily use in factory production line or embedded into machine system. Also, IS-DG308 series unmanaged switches supports some useful function by default, such as QoS, storm protection. That can help for the network traffice optimization.

CE FC

Key Features

> Provide 6 / 8 Giga Copper ports with 2 / 0 100/1000 SFP ports.
> Support 9K Jumbo frames
> IEEE 802.3x flow control & back-pressure
> Layer 2 wire-speed switching engine
> Support IEEE 802.1p TOS/Diffserv, QoS
> Multicast / Broadcast / Flooding Storm Control
> Fan-Less design with wide-temperature range (-40~75ºC)
> Redundant power input 12~58 VDC
> Reserve power protetion
> Support Din-Rail or wall mount installation
> Support Relay Output Alarm
> IP 30 Protection
> 1.5KV hipot, 2 KV surge immunity on RJ45 Copper ports

Specifications

Ethernet

Operating Mode	Store and Forward, L2 wire-speed/non-blocking switching engine
MAC addresses	8K
Jumbo frames	9K Bytes
Packet Buffer	4Mbits

Copper RJ45 Ports

Speed	10/100/1000 Mbps
	Support straight or cross wired cables
MDI/MDIX uto-crossover	10/100/1000 Mbps speed auto-negotiation;Full & Half Duplex
Ethernet isolation	1500 VRMS 1minute(Hipot), 2KV surge immunity on RJ45 Copper ports

SFP (pluggable) Ports

Port Types supported	100/1000 Base SFP Slot
Filter port connector	LC/RJ45 connector for fiber ports
Optimal fiber cable	Typical 50 or 62.5/125 µm for multimode (mm)
	Typical 8 or 9/125 µm for single mode (sm)

Features

QoS	IEEE 802.1p, TOS/Diffserv
Number of Queue	4
Storm Protection	Multicast/Broadcast/Flooding Storm Control
Traffic Shaper	Port-Based Port Sharping

Power

Power Input	Redundant Power Input, Terminal Block
Input Voltage Range	12~58 VDC
Reserve power protection	YES
Power Consumption	IS-DG308 7.7 Watt, IS-DG308-2F 8.5 Watt

Indicators

Power status indication	Power Input status
Ethernet port indication	Line & speed

Environmental and Compliances

Operating Temperature	-40~75ºC (Cold startup at -40ºC)
Storage Temperature	-40~85ºC
Humidity	5~95% (Non-Condensing)
Vibration, shock, free fall	IEC-60068-6, -27, -32
Certification Compliance	CE, FCC
Electrical safety	CE
EMC	FCC Part 15, CISPR 22 (EN55022) Class A
	IEC-61000-4-2, -3, -4, -5, -6 (Level 3)
RoHS & WEEE	RoHS (Pb free) and WEEE Compliant
MTBF	>25 years

Mechanical

Protection	IP30
Dimension	117.8mm(H) x 39mm (W) x 96.9mm (D) (without DIN rail clip)
Weight	395g
Installation	DIN-Rail mounting; Wall mounting
Relay Output Alarm	1A, 24 VDC, Normal Open

Dimension Diagram

Front View

Side View

Rear View

DIN-RAIL/PANEL MOUNTING KIT

BOTTOM VIEW
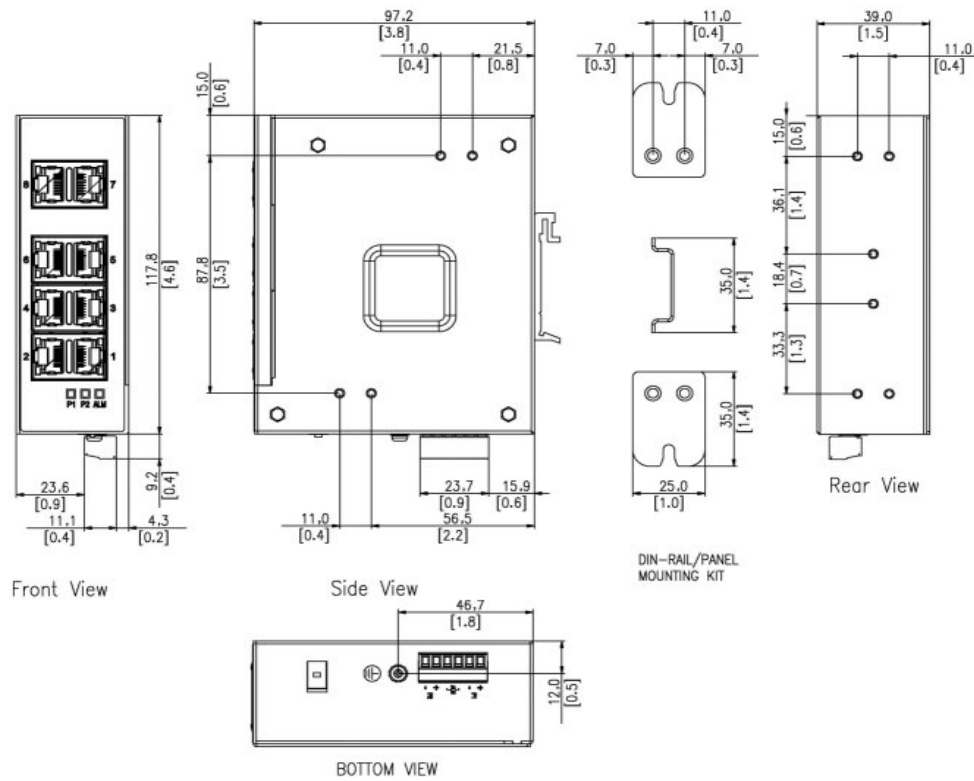
Ordering information

Available Models	Description	Gigabit Ethernet Port	
		10/100/1000BaseT(X)	100/1000BaseSFP
IS-DG308-2F	Industrial 8 port Gigabit Layer 2 unmanaged Ethernet Switch	6	2
IS-DG308	Industrial 8 port Gigabit Layer 2 unmanaged Ethernet Switch	8	

Accessories

- SFP Modules