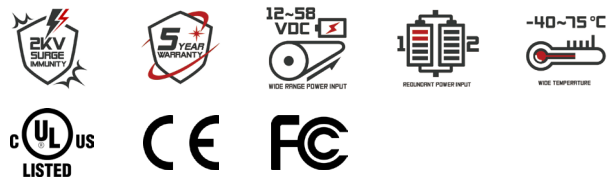


# IS-DH318 Series

## 18-port Fast Ethernet Unmanaged Layer 2 Industrial Ethernet Switch



The ISON IS-DH318 series are cost-effective unmanaged Fast Ethernet Switches that provide both copper and fiber connectivity according to field needs. With plug-n-play, easy to use, and its compact size, the IS-DH318 Series can easily be used in factory production line, embedded into machine system or applied for any simple network expansion. The IS-DH318 Series provide default network protection functions such as broadcast storm protection function, which can prevent unexpected traffic flood to the network. The IS-DH318 Series is the perfect solution for general application and edge site installation.



### Key features

- ▶ Provide 16 10/100Mbps Copper ports plus 2 Gigabit Copper ports or 2 Gigabit SFP Slots
- ▶ IEEE 802.3x flow control & back-pressure
- ▶ Layer 2 Line-Speed Switching Fabric, non-blocking
- ▶ Multicast / Broadcast / Flooding Storm Control
- ▶ Fan-Less design
- ▶ Wide-temperature range (-40~75°C)
- ▶ Redundant power input (12~58 VDC)
- ▶ Reverse power protection
- ▶ Din-Rail or wall mount installation
- ▶ Relay Output Alarm
- ▶ IP 30 Protection
- ▶ 2KV Surge immunity on RJ45 ports
- ▶ 1.5KV Hipot for port isolation

### Specification

#### Ethernet

Operating Mode	Store and Forward, L2 wire-speed/non-blocking switching engine
MAC addresses	16K
Packet Buffer	4Mbits
Backplane / Switching Fabric	7.2 Gbps

#### RJ45 Copper ports

Speed	16 10/100Mbps plus 2 10/100/1000Mbps
MDI/MDIX Auto-crossover	Support straight or cross wired cables
Auto-negotiation/Duplex	10/100/1000 Mbps speed auto-negotiation; Full & Half Duplex
Ethernet Port Protection	1.5KV VRMS 1minute(Hipot), 2KV surge immunity on RJ45 Copper ports

#### Fiber Ports

Port Types supported	1000 Base SFP Slot
Filter port connector	LC/RJ45 connector for fiber ports
Optimal fiber cable	Typical 50 or 62.5/125 $\mu\text{m}$ for multimode (mm) Typical 8 or 9/125 $\mu\text{m}$ for single mode (sm)

#### Protocols & Standards

IEEE 802.3, IEEE 802.3x, Flow Control, Back Pressure, TCP/UDP

#### Power

Power Input	Redundant Power Input, DC Input, terminal Block
Input Voltage Range	12-58 VDC
Reverse power protection	YES
Power Consumption	18 Watt

## Indicators

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

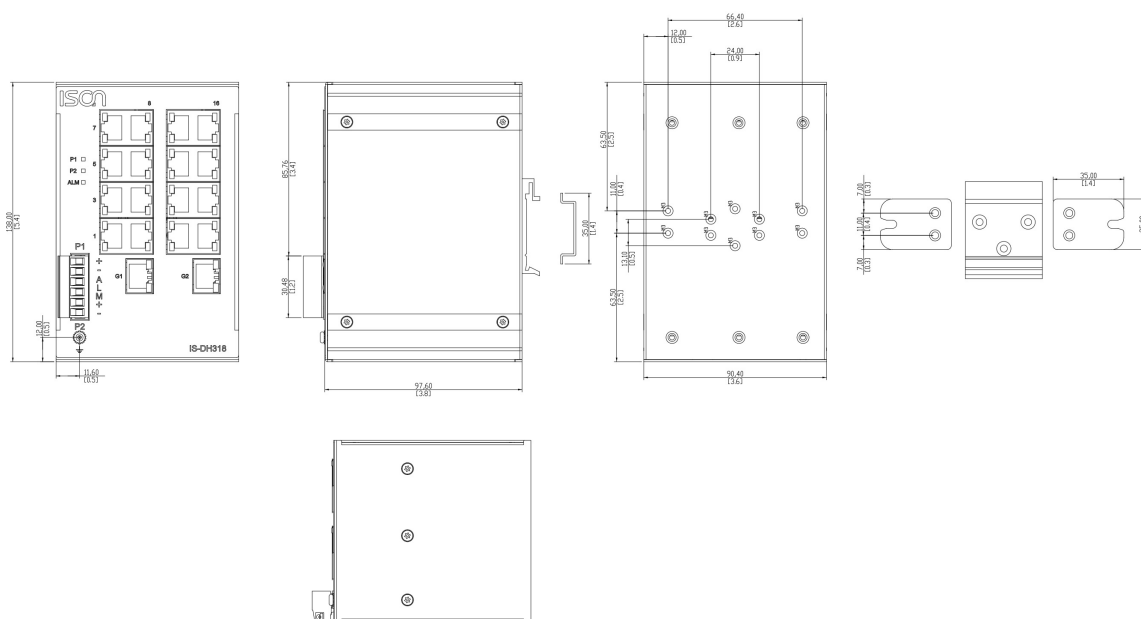
## Environmental and Compliances

Operating Temperature	-40~75°C (Cold startup at -40°C)
Storage Temperature	-40~85°C
Humidity	5~95% (Non-Condensing)
Vibration, shock, free fall	IEC-60068-2-6, -27, -32
Certification Compliance	CE, FCC, UL 60950-1, CSA C22.2 No. 60950-1, EN 60950-1,
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	>200,000 hrs

## Mechanical

Protection	IP30
Dimension	TBD
Weight	1.5 kg
Installation	DIN-Rail mounting; Wall mounting
Relay Output	1A, 24V, Normal Open

## Dimension Diagram



## Ordering Information

Available Models	Description	10/100 Mb TX	TX	100/1000 Mb TX
IS-DH318	Industrial 18-port Unmanaged Ethernet Switch with 16 10/100Mb Copper ports plus 2 100/1000 Based Copper ports, -40 to 75 °C of operating temperature, Dual DC Power	16	2	0
IS-DH318-2F	Industrial 18-port Unmanaged Ethernet Switch with 16 10/100Mb Copper ports plus 2 Gigabit SFP Slot, -40 to 75 °C of operating temperature, Dual DC Power	16	0	2

## Accessories

1. IS-RK4U 19" rack mount kit

## Package Checklist

- IS-DH318 Switch
- Quick Installation Guide (Printed)
- Wall Mount kit / DIN-Rail kit