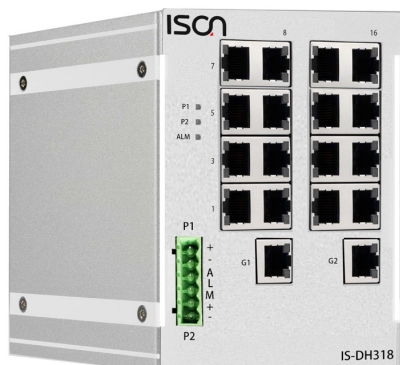


IS-DH318 Series

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 μ m for multimode (mm) Typical 8 or 9/125 μ 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 |

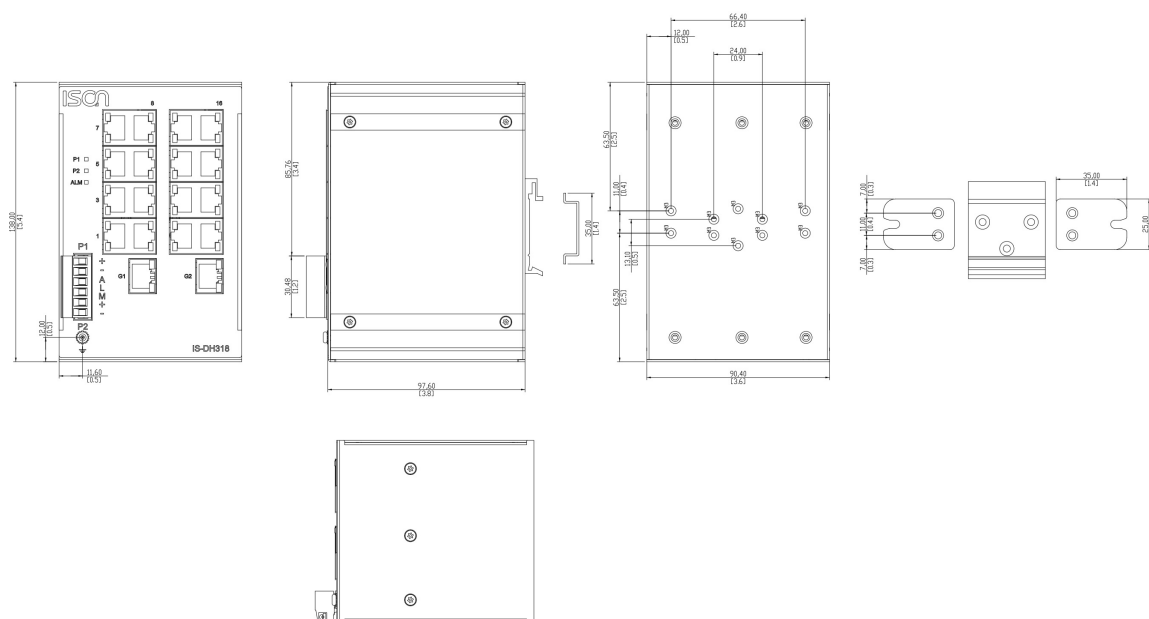
Environmental and Compliances

| | |
|-----------------------------|--|
| 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 | 100/1000 Mb TX | 1000 Mb FX |
|------------------|---|--------------|----------------|------------|
| 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