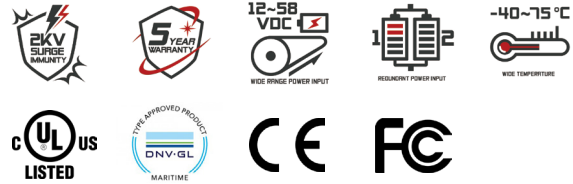


# IS-DF310 Series

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



The ISON IS-DF310 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-DF310 Series can easily be used in factory production line, embedded into machine system or applied for any simple network expansion. The IS-DF310 Series is the perfect solution for general application and edge site installation.



### Key features

- ▶ 8/4/2/0 100Mb SFP Ports plus 2/6/8/10 100Mb Copper ports
- ▶ 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	2.0 Gbps

#### RJ45 Copper ports

Speed	10/100 Mbps
MDI/MDIX Auto-crossover	Support straight or cross wired cables
Auto-negotiation/Duplex	10/100 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	100 Base SFP Slot
Fiber port connector	LC 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	15 Watt (With Fiber)

## Indicators

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

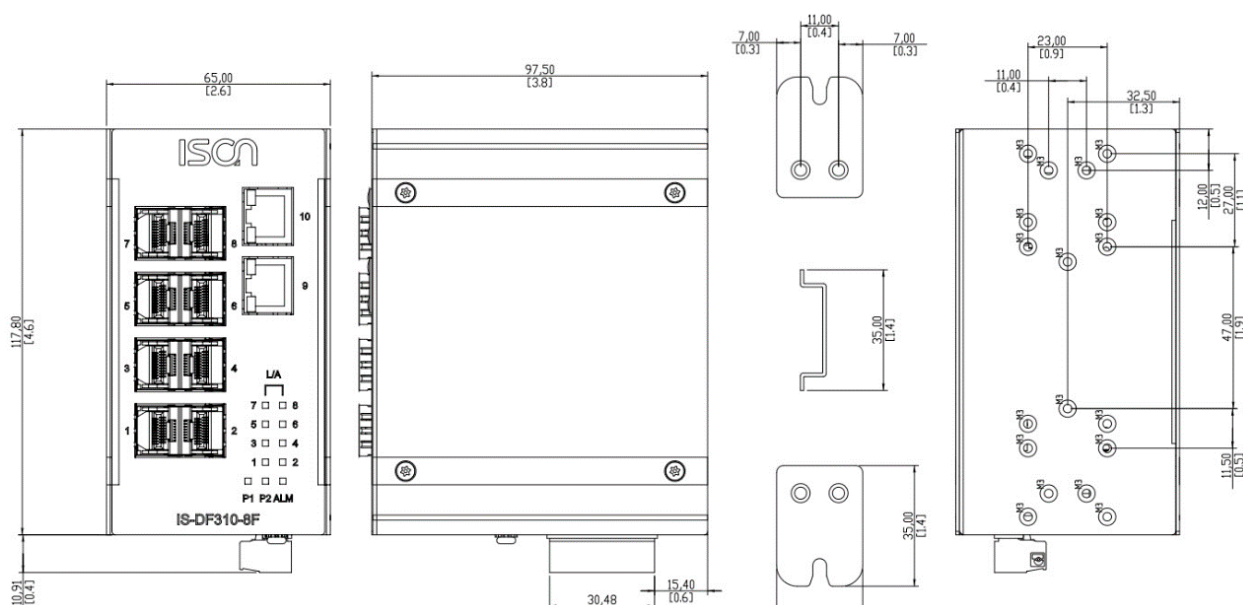
## Environmental and Compliances

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,
Marine	DNV, GL
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 65mm (W) x 97.5mm (D) (without DIN rail kit)
Weight	550 g
Installation	DIN-Rail mounting; Wall mounting
Relay Output	1A, 24V, Normal Open

## Dimension Diagram



## Ordering Information

Available Models	Description	10/100 Mb TX	100 Mb FX
IS-DF310-8F	Industrial 10-port Unmanaged Ethernet Switch with 8 100 FX SFP Slot and 2 10/100 BaseT(X) ports, -40 to 75 °C of operating temperature, Dual DC Power	2	8
IS-DF310-4F	Industrial 10-port Unmanaged Ethernet Switch with 4 100 FX SFP Slot and 6 10/100 BaseT(X) ports, -40 to 75 °C of operating temperature, Dual DC Power	6	4
IS-DF310-2F	Industrial 10-port Unmanaged Ethernet Switch with 2 100 FX SFP Slot and 8 10/100 BaseT(X) ports, -40 to 75 °C of operating temperature, Dual DC Power	8	2
IS-DF310	Industrial 10-port Unmanaged Ethernet Switch with 10 10/100 BaseT(X) ports, -40 to 75 °C of operating temperature, Dual DC Power	10	0

## Accessories

1. IS-RK2U 19" rack mount kit
2. IS-RK4U 19" rack mount kit
3. IS-PS20-12 Power adaptor

## Package Checklist

- IS-DF310-8F Switch
- Quick Installation Guide (Printed)
- Wall Mount kit / DIN-Rail kit