8-port Ethernet Switch

Westermo SDI-880

- 8 10/100TX Ports with Auto MDI/MDI-X
- Compact size with full power redundancy
- 2 Gbit/s Switch Fabric
- QoS for packet forwarding prioritisation
- Broadcast storm packet filtering.
- Port and power event alarm
- IP-31 aluminum alloy case
- DIN-Rail mount
- Dual power input DC 10 ~ 48 V
- AC 1.5 KV Hi-pot isolation protection
- −34 ~ 70°C operating temperature for hazardous environment application

CE FC RoHS

The Westermo SDI-880 is a new generation 8-port compact Fast Ethernet switch. It is equipped with 2 a Gbit/s packet switch engine that can handle data packets of 64 to 1552 bytes and also supports 2 priority queues to provide optimum data forwarding performance.

In addition, to enhance network performance, both broadcast storm filtering and flow control functions ensure congestion free data traffic delivery.

To ensure functionality in industrial networks, the SDI-880 is equipped with 2 redundant power inputs capable of handling a wide input voltage range thus avoiding any issues with power interruption. The unit is designed to operate between −34 to +70°C.

For easy monitoring the Westermo SDI-880 has one alarm-relay contact to provide indication of port link and power fail events to assist engineers with notification of problems from field installations.

The SDI-880 requires no configuration prior to initial use and is functional almost immediately on power up making it a simple product to install and use.

The Westermo SDI-880 can operate on voltages of 10 V~48 V. Reverse power polarity protection and 1.5 KV Hi-Pot isolation protection provides superior protection in demanding industrial environments.

Specifications

Technology	
Standard	IEEE802.3 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3x flow control, IEEE802.1p Class of Service, IEEE802.1Q Quality of Service
Switch Technology	Store and forward technology and with 2 Gbit/s Switch Fabric

System Performance	
Aggregate System Throughput	1.49 Mpps
MAC Address	2K MAC
Packet Buffer	448 kbits
Transfer Packet Size	14.880 pps for Ethernet 10Base-T
	148.800 pps for Fast Ethernet
	Packet size from 64~1552 Bytes (Long Packet forwarding ability)
Broadcast storm control	Default enabled Traffic threshold: 200 packets / Sec. @ 100 Mbit/s; 20 packets / Sec. @ 10 Mbit/s
Class of Service	Provides 2 packet forwarding Queues: High Queue (4 ~ 7), Low Queue (0 ~ 3)
Quality of Service	Default Enabled. Supports VLAN tag priority and IPv4 packet precedence
Event alarm relay	Provides port and power event alarm; Enabled by 9-PIN Dip-switch

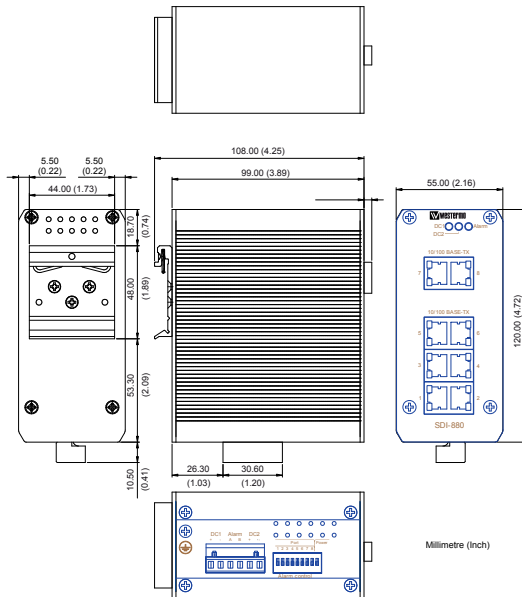| Interface	
Number of Ports	8 x 10/100 Base-TX with Auto MDI/MDI-X, Auto-Negotiation function
Connectors	10/100 Base-TX: RJ-45
Power	Terminal Block
Alarm relay	Terminal block connector with 1 A @ DC 24 V carry ability
Cables	CAT-3, CAT-4, CAT-5, CAT-5e unshielded twisted pair or shielded twisted pair cable. The Link distance is 100 meters in maximum.
Diagnostic LED	Power (Green) x2 10/100TX port: Link (Green on) / Activity (Green blinks) 100 Mbit/s Link (Yellow on)/ 10 Mbit/s Link (Yellow off) Alarm: Port / Power Event (Red on)

Power Requirements	
System Power	2 Power inputs with redundancy and polarity reverse protection. Voltage: DC 24 V (10 ~ 48 V)
Power Consumption	8 Watts @ DC 24 V

Mechanical	
Installation	DIN-Rail mount
Case	IP-31 grade aluminum metal case
Dimension	120 mm (H) x 55 mm (W) x 108 mm (D) (without DIN rail clip)
Weight	0.775 kg with package
	0.525 kg without package

Environmental	
Operating Temperature	−34 ~ 70°C
Operating Humidity	0% ~ 95%, (non-condensing)
Storage Temperature	−40 ~ 85°C
Storage Humidity	0% ~ 95%, (non-condensing)

Regulatory Approvals	
EMI	FCC class A CE/EN55022 class A
EMS	EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Free Fall	IEC60068-2-32
Warranty	5 years

Dimensions (Unit – mm / In)

Millimetre (Inch)

Ordering Information	
Art.no.	**Description**
3625-0100	Westermo SDI-880
	Quick Installation Guide