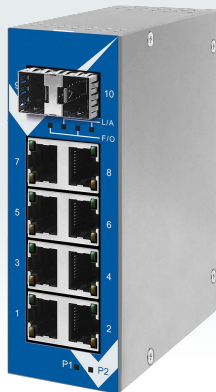# VLS-2010-2F

Industrial 10-port Full Gigabit Layer 2 unmanaged Ethernet Switch, 8 10/100/1000Base T(X) Ports, 2 100/1000Base SFP Ports, IP 30, 12V to 58V DC, Rugged and Fan-less Design with Compact Size, -40°C to 75°C Extended Temperature

Features

- 8 Giga Copper Ports with 2 100/1000 SFP Ports
- Support 9K Jumbo Frames
- IEEE 802.3x Flow Control & Back-Pressure
- Layer 2 Line-Speed Switching Fabric, Non-Blocking
- Fan-Less Design with Wide-Temperature Range (-40°C to 75°C)
- Redundant Power Input 12V to 58V DC
- Reverse Power Protection
- Support Din-Rail or Wall Mount Installation
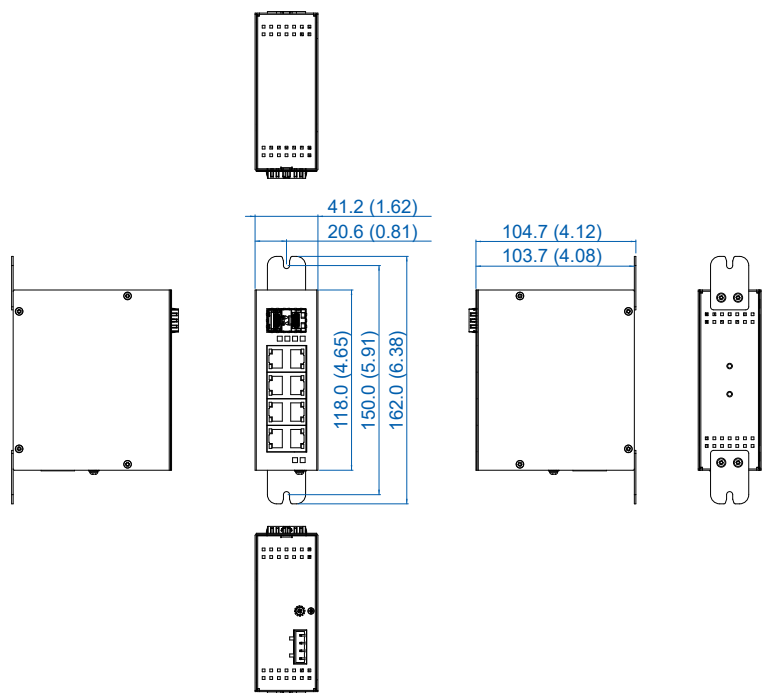- IP 30 Protection
- Rugged and Compact Size Design

Specifications

Ethernet

Operating Mode	Store and Forward, L2 wire-speed/non-blocking switching engine
MAC Addresses	8K
Packet Buffer	4Mbits
Jumbo Frame	9K
Backplane/ Switching Fabric	20Gbps

RJ45 Copper Ports

Speed	10/100/1000 Mbps
MDI/MDIX Auto-crossover	Support straight or cross wired cables
Auto-negotiation/ Duplex	10/100/1000 Mbps speed auto-negotiation; Full & Half Duplex

Fiber Ports

Port Types Supported	100/1000 Base SFP Slot
Fiber 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)

Power

Power Input	12V to 58V, DC-in
Power Interface	Redundant Power Input, DC Input, 4-pin Removable Terminal Block
Reverse Power Protection	Yes
Power Consumption	9 Watt

Indicators

Power Status Indication	Power Input Status
Ethernet Port Indication	Link & Speed

Standards

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

Mechanical

Dimensions (H x W x L)	117.8mm x 39mm x 96.9mm (4.64" x 1.54" x 3.81") (without DIN rail clip)
Weight	0.385 kg (0.85lb)
Installation	▪ DIN Rail Mount ▪ Wall Mount (Optional)
Protection	IP30

Environment

Operating Temperature	-40 to 75°C (-40°F to 167°F) (Cold Startup @ -40°C)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, Non-condensing
Relative Humidity	95% @ 75°C
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6
Free Fall	IEC 60068-2-32
Electrical Safety	CE
EMC	▪ FCC Part 15B Class A ▪ CISPR 22 (EN55032) Class B, EN55024, EN55035 ▪ IEC-61000-4-2, -3, -4, -5, -6, -8 (Level 3)
RoHS	RoHS (Pb free)
MTBF	>25 years

Dimensions

41.2 (1.62)
20.6 (0.81)
104.7 (4.12)
103.7 (4.08)
118.0 (4.65)
150.0 (5.91)
162.0 (6.38)

Front I/O

2 100/1000Base SFP Ports

8 10/100/1000Base T(X) Ports
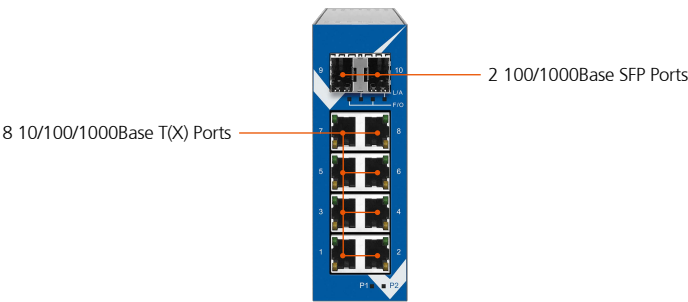
Order Information

VLS-2010-2F	VLS-2010-2F, Industrial 10-port Full Gigabit Layer 2 unmanaged Ethernet Switch, 8 10/100/1000Base T(X) Ports, 2 100/1000Base SFP Ports, with Din Rail, -40°C to 75°C

Accessories

PWA-25W-WT	25W, 48V, 85V AC to 264V AC Power Adapter with 4-pin Terminal Block (5.08mm pitch), Wide Temperature -30°C to 70°C
Wall Mount	Wall-mounting Kit for Ethernet Switch