

# VIL-1006-2F

Industrial 6-port Fast Ethernet Layer 2 managed Ethernet Switch, 4 10/100Base T(X) Ports, 2 100Base SFP Ports, IP 30, 12V to 58V DC, Rugged and Fan-less Design with Compact Size, -40°C to 75°C Extended Temperature



## Features

- 4 10/100 Mb Copper Ports with 2 100Mb Based SFP Ports
- Layer 2 Line-Speed Switching Fabric, Non-Blocking
- Network Redundancy LACP, Spanning Tree Protocol, STP, RSTP
- Port-based VLAN, IEEE 802.1Q Tag-based VLAN
- Redundant Power Input 12V to 58V DC
- Reverse Power Protection
- Bandwidth Management
- SNMP v1/v2c, Trap
- Support Din-Rail or Wall Mount Installation
- Fan-Less Design with Wide-Temperature Range (-40°C to 75°C)
- Loop Protection
- IP 30 Protection
- Rugged and Compact Size Design
- Fault Alarm Notification (Power down)



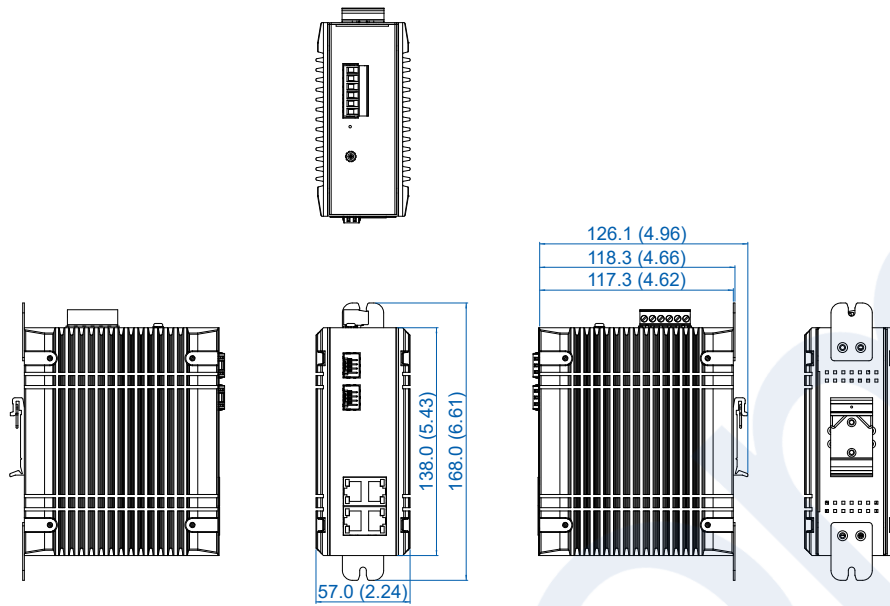
## Specifications

Ethernet	
<b>Operating Mode</b>	Store and Forward, L2 wire-speed/non-blocking switching engine
<b>MAC Addresses</b>	16K
<b>Packet Buffer</b>	4Mbits
<b>Backplane/Switching Fabric</b>	1.2Gbps
RJ45 Copper Ports	
<b>Speed</b>	10/100 Mbps
<b>MDI/MDIX Auto-crossover</b>	Support straight or cross wired cables
<b>Auto-negotiation/Duplex</b>	10/100 Mbps speed auto-negotiation; Full & Half Duplex
<b>Ethernet Port Protection</b>	1.5kV VRMS 1minute (Hi-pot), 2kV surge immunity on RJ45 Copper ports
Fiber Ports	
<b>Port Types Supported</b>	100 Base SFP Slot
<b>Fiber Port Connector</b>	LC/RJ45 connector for fiber ports
<b>Optimal Fiber Cable</b>	<ul style="list-style-type: none"> <li>▪ Typical 50 or 62.5/125 μm for multimode (mm)</li> <li>▪ Typical 8 or 9/125 μm for single mode (sm)</li> </ul>
Network Redundancy	
<b>Spanning Tree Protocol</b>	IEEE 802.1D/1w, STP/RSTP
<b>Port Trunk/LACP</b>	Static Trunk or LACP (Link Aggregation Control Protocol)
Bridge, VLANs, Protocols	
<b>Flow Control</b>	IEEE 802.3x (Full Duplex) and Back-Pressure (Half Duplex)
<b>Max VLANs</b>	256
<b>VLAN Types</b>	Port-Based VLAN, IEEE 802.1Q tag-based VLAN
<b>Multicast Protocols</b>	<ul style="list-style-type: none"> <li>▪ IGMP v1, v2, up to 255 multicast groups</li> <li>▪ IGMP snooping, querying</li> </ul>
<b>LLDP</b>	IEEE 802.1ab LLDP
Traffic Management & QoS	
<b>Priority</b>	IEEE 802.1p QoS
<b>Number of Queues Per Port</b>	8
<b>Scheduling Schemes</b>	SPQ, WRR
Security	
<b>Port Security</b>	IP and MAC-based Access Control/Filter, Auth User/Privilege Level Control
<b>Storm Control</b>	Multicast/Broadcast/Flooding Storm Control/Port Access Control/Limiters
Power	
<b>Power Input</b>	12V to 58V, DC-IN
<b>Power Interface</b>	Redundant Power Input, DC Input, 6-pin Removable Terminal Block
<b>Reverse Power Protection</b>	Yes
<b>Transient Protection</b>	> 15, 000 Watts peak
<b>Power Consumption</b>	12.5Watt

Management	
<b>User Management Interfaces</b>	<ul style="list-style-type: none"> <li>▪ Web-based Management</li> <li>▪ SNMP V1, V2c, Trap, Telnet (5 sessions)</li> </ul>
<b>Management Security</b>	HTTPs, SSH, Access Management, Loop Protection
<b>Upgrade &amp; Restore</b>	<ul style="list-style-type: none"> <li>▪ TFTP for Configuration Import/Export</li> <li>▪ TFTP for Firmware Upgrade</li> </ul>
<b>Diagnostic</b>	<ul style="list-style-type: none"> <li>▪ Syslog, Level Info/Warning/Error</li> <li>▪ Port Mirror, Per VLAN mirroring, CPU Load Monitor, Traffic Counter</li> <li>▪ ICMP Ping</li> </ul>
<b>DHCP</b>	Client Mode, Server Mode, Relay Mode, Snooping
<b>SNTP</b>	YES
<b>System Status</b>	Device info/status; Ethernet port status
<b>Green Ethernet</b>	Port Power Savings
Indicators	
<b>Power Status Indication</b>	Power Input Status
<b>Ethernet Port Indication</b>	Link & Speed
Protocols & Standards	
<b>Protocols &amp; Standards</b>	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x, IEEE 802.1D/w, IEEE 802.1Q/p, IEEE 802.1ab, IEEE 802.1X, IEEE 802.3ad LLDP, IPv4/IPv6, SNMP v1/v2c, TFTP, ARP, RARP, Telnet, Syslog, Flow Control, Back Pressure, ICMP, UPD, TCP
Mechanical	
<b>Protection</b>	IP30
<b>Dimensions (H x W x L)</b>	138mm x 57mm x 117.3mm (5.43" x 2.24" x 4.62") (without DIN rail clip)
<b>Weight</b>	0.350 kg (0.77lb)
<b>Installation</b>	<ul style="list-style-type: none"> <li>▪ DIN Rail Mount</li> <li>▪ Wall Mount (Optional)</li> </ul>
<b>Relay Output</b>	1A, 24V, Normal close
Environment	
<b>Operating Temperature</b>	-40°C to 75°C (-40°F to 167°F) (Cold Startup @ -10°C)
<b>Storage Temperature</b>	-40°C to 85°C (-40°F to 185°F)
<b>Humidity</b>	5% to 95% Humidity, Non-condensing
<b>Relative Humidity</b>	95% @ 75°C
<b>Shock</b>	IEC 60068-2-27
<b>Vibration</b>	IEC 60068-2-6
<b>Free Fall</b>	IEC 60068-2-32
<b>Electrical Safety</b>	CE
<b>EMC</b>	<ul style="list-style-type: none"> <li>▪ FCC Part 15B Class A</li> <li>▪ CISPR 22 (EN55032) Class B, EN55024, EN55035</li> <li>▪ IEC-61000-4-2, -3, -4, -5, -6, -8 (Level 3)</li> </ul>
<b>RoHS</b>	RoHS (Pb free)
<b>MTBF</b>	>220,000 hrs

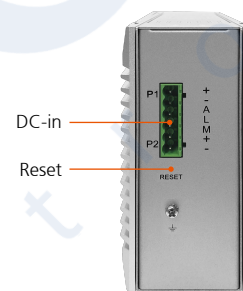
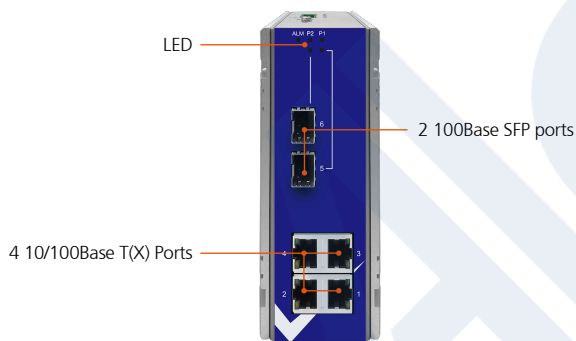
# Dimensions

Unit : mm/ inch



## Front I/O

## Top I/O



## Order Information

<b>VIL-1006-2F</b>	VIL-1006-2F, Industrial 6-Port Fast Ethernet Layer 2 managed Ethernet Switch, 4 10/100Base T(X) Ports, 2 100Base SFP Ports, with Din Rail, -40°C to 75°C
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### Accessories

<b>PWA-25W1-WT</b>	25W, 48V, 85V AC to 264V AC Power Adapter with 6-pin Terminal Block (5.08mm pitch), Wide Temperature -30°C to 70°C
<b>Wall Mount</b>	Wall-mounting Kit for Ethernet Switch

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