VOLKTEK

INS-8528M

Managed 8 x 10/100 RJ45 & 2 x FX/GbE SFP Industrial Switch, DNV Marine Approval

Description

The INS-8528M is a Managed Industrial Switch specifically designed to suit your heavy industrial environments and contains all the standard features to deploy in automation systems. Engineered with hardened components and enclosed in a rugged IP30 aluminum case, the INS-8528MM can operate in wide temperatures from -40°C to 75°C and also has excellent tolerance capability to high vibration and shock. Under DNV (Det Norske Veritas) certified, the INS-8528MM suits your heavy industrial environments in maritime & offshore applications.

Despite the fact that the INS-8528M is perfectly designed to operate in extreme industrial conditions; the switch is also equipped with a variety of management functions that let you configure communication parameters as you desire and monitor the network behavior in number of different simple ways. In addition, the switch is built with dual redundant power inputs to ensure reliability and maximize network up time. Other integrated features of the switch such as Auto-negotiation, Rate limitation and Port Isolation optimizes your network performance and provide a secure network, offering a cost-effective solution in a small but powerful package.























Robust Switch Performance

INS-8528M is built with IP30 aluminum case, surge and ESD protection to deliver robust performance and withstand extreme conditions in Industrial environments. The SFP ports support 100/1000Mbps for high bandwidth transmissions and the SFP DDM feature enables service providers to monitor SFP parameters. In case of any abnormal hardware condition, the switch automatically sends warnings through email and relay output with real-time alarm messages. This assists the system administrators to immediately react to emergency events and diagnose the faults more efficiently for smoother network operations.



Port-BASEd VLAN, IEEE 802.1Q VLAN, GARP and GVRP to ease network planning

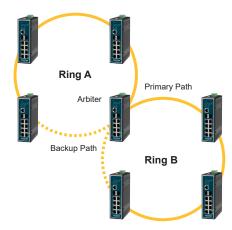
Planning, designing and managing complex networks is now simplified with INS-8528M. The switch supports VLANs which segment large networks into smaller parts and organize them into separate broadcast domains. This helps the administrators to control the traffic patterns, limit broadcast traffic and reduce broadcast storms. As the network expands, to provide control of increased VLANs, the switch offers GVRP feature, an application protocol of GARP, which registers devices and its ports depending on their availability. This feature prevents unnecessary network traffic transmitted by unregistered users and simplifies the network design irrespective of its size.

Network Redundancy

- · Volktek's industrial switches redundant ring architecture enhances network reliability and make them ideal for deploying secure automation network systems in tough outdoor industrial environments, such as ITS, maritime, mining, and manufacturing systems.
- New generation of Volktek Xpress Ring delivers a various choice of ring topologies, including Xpress Ring, Dual Xpress Ring, Dual Homing, in rapid recovery time (<20ms @ 250 switches).
- · G.8032v2, Ethernet Ring Protection Switching (ERPS) protocol, provides protection for Ethernet traffic in a multiple ring topology with fast recovery time (less than 50ms).

Redundant Power system

Mission-critical industrial applications need to operate without any interruptions because even a minimum network downtime can hugely impact the overall output. Providing continuous power and as well as data to such applications is now made easy with INS-8528MM's redundant power system. The switch is designed with standard industrial terminal block for redundant power. In case the primary power supply fails, the secondary power will enable the switch to provide continuous service.

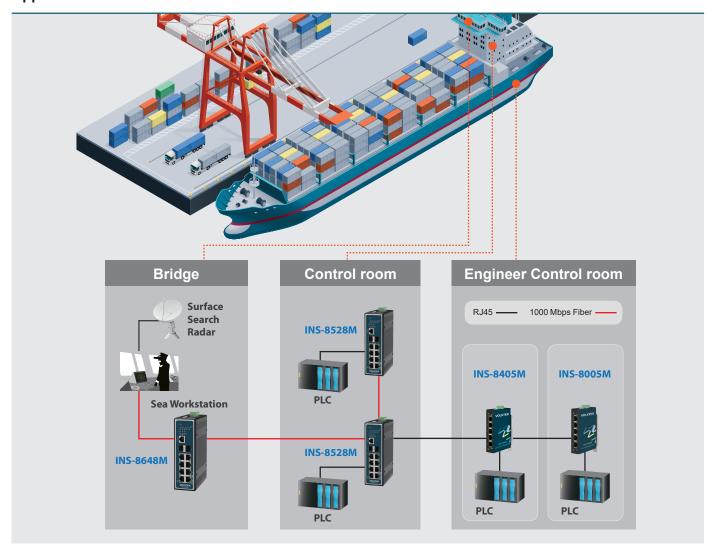


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Certificates & Approvals



Applications



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Specifications

IEEE 802.3
IEEE 802.3u
IEEE 802.3z
IEEE 802.3 Nway Auto-negotiation IEEE 802.3x
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IEEE 802.1X
IEEE 1588v2 PTP Interface 8 x 10/100BASE-TX (RJ45)
Interface 8 x 10/100BASE-TX (RJ45)
8 x 10/100BASE-TX (RJ45)
Ports 2 x 100FX/GbE SFP Slots 1 x RJ45 Console Port
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PWR, RPS, ALM, POST, 1000, LASER ON, SFP,
10/100, LNK/ACT, OFF LINE
Features
Jumbo frame Size: 10KBytes
MAC Table Entries: 16K
Performance Active VLAN: 4K
Switch Fabric: 5.6Gbps
L2 Forwarding Rate: 4.1Mpps
CLI, Telnet/SSH, HTTP/HTTPs, SNMP v1/v2c/v3,
SNMP Trap, MVLAN, Firmware Upgradable,
Configuration Backup/Restore, Syslog, SNTP,
Management PTP, LLDP, UDLD, DHCP Client/Relay/Option82,
e-mail Alarm, Server Control, Mirroring, DDM, SFP
Info, Auto-Provisioning, RMON Statistics,
ModbusTCP
Reliability STP/RSTP/MSTP, Xpress Ring, ERPS v1/v2, Dual
Homing, LACP, Static Trunk, Code Redundancy
IEEE 802.1Q, GARP/GVRP, Port-based VLAN,
VLAN MAC-based VLAN, IP-based VLAN, Protocol-based
VLAN, QinQ
IGMP Snooping/Throttling, IGMP Proxy/Filter, MLD,
Traffic Control MVR, QoS, Flow Control, Rate Limit, Storm Control,
Traffic Monitor, Port Isolation, Loop Detection,
Static Route
ACL, SSH, HTTPs, SNMPv3, Port-based 802.1x,
TACACS+, Port Security, MAC Search, Refusal
Security MAC, Sticky MAC, Static MAC, DHCP Snooping,
DHCP Sever Screening, ARP Inspection, BPDU
Guard/Filter, Root Guard, Managed Host

Power		
Input Voltage	Primary inputs: 12~60VDC	
	Redundant inputs: 12~60VDC	
Connection	Teminal Block	
Power Consumption	System: 12W	
Alarm Relay	One relay output, 1 A @ 24V DC	
Mechanical and Environment		
Housing	Aluminum (IP30 Protection)	
Mounting	DIN-Rail	
Operating Temperature	-40°C~75°C (-40°F~167°F)	
Storage Temperature	-40°C~85°C (-40°F~185°F)	
Operating Humidity	5 to 95% RH (non-condensing)	
Storage Humidity	5 to 95% RH (non-condensing)	
Weight	780 g (1.7 lb)	
Dimension (WxHxD)	50 x 165 x 122.2 mm (1.97 x 6.50 x 4.81 in)	
Certifications		
	FCC Part 15 Subpart B Class A	
ЕМІ	EN 55022 : class A	
	EN 55011 : 2009 class A	
	EN 61000-6-4	
EMS	EN 55024	
	EN 61000-6-2	
	EN 61000-4-2 (ESD)	
	EN 61000-4-3 (RS)	
	EN 61000-4-4 (Burst)	
	EN 61000-4-5 (Surge) EN 61000-4-6 (CS)	
	EN 61000-4-8 (PFMF)	
Marine	DNV-CS-0339:2016	
	DNV-RU-SHIP-Pt4Ch9:2018	
	IEC-60945, IACS E10 (Rev.6 2014)	
Shock	IEC 60068-2-27	
Freefall	IEC 60068-2-32	
Vibration	IEC 60068-2-6	
Safety	UL 61010-1, UL 61010-2-201	
Ordering Information		
INS-8528M	Managed 8 x 10/100 RJ45 & 2 x FX/GbE SFP	
	Industrial Switch, DNV Marine Approval	
Optional Accessories		
Power Supply	SDR-120-48: 120W DIN-Rail 48VDC Industrial	
	Power Supply, -25°C~70°C (-13°F~158°F)	
GBM-104	1000BASE-SX 1.25G, Multi-mode SFP, 500m	
GBM-123TS	1000BASE-LX, Bi-Di SFP TX:1310/RX:1550	
	Single Mode, 10Km, 0°C~70°C (-32°F~158°F)	
GBM-123RS	1000BASE-LX, Bi-Di SFP TX:1550/RX:1310	
	Single Mode, 10Km, 0°C~70°C (-32°F~158°F)	
Note :		

Note:

- * The SFP communication distance upon the request.
- * Industrial SFP with wide operating temperature from -40°C~85°C (-40°F~185°F) is available
- * The highest degree of temperature operation certified by DNV is (Class D) -25°C~70°C (-13°F~158°F), and the nominal voltage of 24VDC for DNV type approval is specified.

 * The highest degree of temperature operation certified by UL is -40°C~70°C (-40°F~158°F).
- * Specifications subject to change without notice.

