VOLKTEK

INS-8528M

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

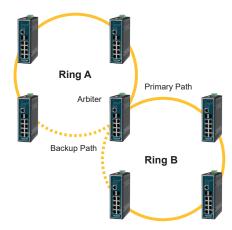
Planning, designing and managing complex networks is now simplified with INS-8528M. The switch supports VLANs which segment large networks into smaller parts and organize them into separate broadcast domains. This helps the administrators to control the traffic patterns, limit broadcast traffic and reduce 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.

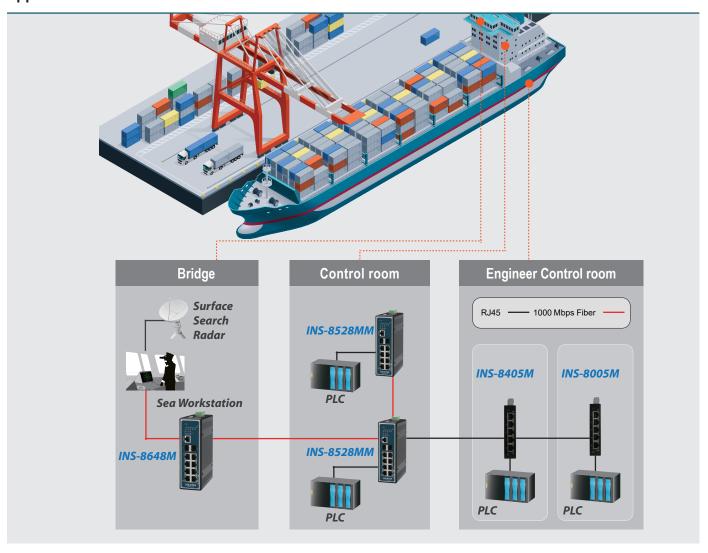


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Certificates & Approvals



Applications



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Specifications

Standards	
IEEE 802.3	10BASE-T
IEEE 802.3u	100BASE-TX
IEEE 802.3u	100BASE-FX
IEEE 802.3z	1000BASE-SX/LX
IEEE 802.3	Nway Auto-negotiation
IEEE 802.3x	Flow Control
IEEE 802.3ad	Link Aggregation
IEEE 802.1AB	LLDP
IEEE 802.1ad	QinQ
IEEE 802.1D	STP
IEEE 802.1w	RSTP
IEEE 802.1s	MSTP
IEEE 802.1p	Class of Service
IEEE 802.1Q	VLAN Tagging
IEEE 802.1X	Port Authentication
IEEE 1588v2	PTP
Interface	
	8 x 10/100BASE-TX (RJ45)
Ports	2 x 100FX/GbE SFP Slots
	1 x RJ45 Console Port
DIP Switch	Primary/Redundant Power Voltage Drop Alarm setting
	PWR, RPS, ALM, POST, 1000, LASER ON, SFP,
LED Panel	10/100, LNK/ACT, OFF LINE
Features	15, 155, 2, 11, 1, 15, 1, 5, 1, 2, 1, 2
- Cutul Co	Jumbo frame Size: 10KBytes
Performance	MAC Table Entries: 16K
	Active VLAN: 4K
	Switch Fabric: 5.6Gbps
	L2 Forwarding Rate: 4.1Mpps
Management	CLI, Telnet/SSH, HTTP/HTTPs, SNMP v1/v2c/v3,
	SNMP Trap, MVLAN, Firmware Upgradable,
	Configuration Backup/Restore, Syslog, SNTP,
	PTP, LLDP, UDLD, DHCP Client/Relay/Option82,
	e-mail Alarm, Server Control, Mirroring, DDM, SFP
	1 2
	Info, Auto-Provisioning, RMON Statistics,
	ModbusTCP
Reliability	STP/RSTP/MSTP, Xpress Ring, ERPS v1/v2, Dual
	Homing, LACP, Static Trunk, Code Redundancy
VLAN	IEEE 802.1Q, GARP/GVRP, Port-based VLAN,
	MAC-based VLAN, IP-based VLAN, Protocol-based
Traffic Control	VLAN, QinQ
	IGMP Snooping/Throttling, IGMP Proxy/Filter, MLD,
	MVR, QoS, Flow Control, Rate Limit, Storm Control
	Traffic Monitor, Port Isolation, Loop Detection,
	Static Route
Security	ACL, SSH, HTTPs, SNMPv3, Port-based 802.1x,
	TACACS+, Port Security, MAC Search, Refusal
	MAC, Sticky MAC, Static MAC, DHCP Snooping,
	DHCP Sever Screening, ARP Inspection, BPDU
	Guard/Filter, Root Guard, Managed Host

Power	
	Primary inputs : 12~60VDC
Input Voltage	Redundant inputs : 12~60VDC
Connection	Teminal Block
Power Consumption	System : 12W
Alarm Relay	One relay output, 1 A @ 24V DC
Mechanical and Envi	, , , ,
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	<u> </u>
	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)
	DNVGL-CS-0339:2016
Marine	DNVGL-CS-0339:2016 DNVGL-RU-SHIP-Pt4Ch9:2018
Shock	IEC-60945, IACS E10 (Rev.6 2014)
Freefall	IEC 60068-2-27 IEC 60068-2-32
Vibration	IEC 60068-2-32
Safety	UL 61010-1, UL 61010-2-201
Ordering Information	
Managed 8 x 10/100 RJ45 & 2 x FX/GbE SFP	
INS-8528M	Industrial Switch, DNV GL Marine Approval
Optional Accessories	, , , , , , , , , , , , , , , , , , , ,
- Paronal Accessories	SDR-120-48: 120W DIN-Rail 48VDC Industrial
Power Supply	Power Supply, -25°C~70°C (-13°F~158°F)
GBM-104	1000BASE-SX 1.25G, Multi-mode SFP, 500m
GDIVI-104	1000BASE-SX 1.25G, Multi-mode SFP, 500m 1000BASE-LX, Bi-Di SFP TX:1310/RX:1550
GBM-123TS	· · · · · · · · · · · · · · · · · · ·
	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)
	Sinule Mode. Turin. U C~/U C (-32 F~158 F)

- 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 upon request.

 * 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.

 * Specifications subject to change without notice.

