VOLKTEK
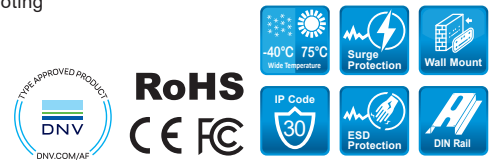
INS-8005M

Managed 5 x 10/100 RJ45 Industrial Switch, DNV Marine Approval

Description

Volktek's INS-8005M unmanaged industrial fast ethernet switch specifically designed to suit your heavy industrial environments. Switch provides 5-port 10/100BASE-TX in a rugged, hardened case and components able to withstand a high degree of vibration and shock and an operating temperature from -40°C to 75°C. Not an ordinary industrial switch, the INS-8005M is engineered and designed especially for harsh and extreme industrial type applications. With its hardened case, DC power inputs, and high performance components, the INS-8005M is perfectly suited for your extreme industrial automation environment.

The INS-8005M provides varied choice of deployment locations even in harsh environments with wall-mount and Din-Rail options in a quick and easy way with no configuration required. Every INS-8005M is equipped with auto MDI/MDI-X on all ports for simple connection to other switches and hubs. Each port of INS-8005M has two LEDs to show the link status transmission speed which making troubleshooting the device a simple task.

Features Highlight

Robust Performance and Protection

With IP30 metal case, surge protection, power voltage drop alarm, and ESD protection, the INS-8005M provides a high level of immunity against electromagnetic interference and heavy electrical surges which are easy to deploy in industrial environments. Furthermore, the INS-8005M offers high performance switch architecture with 5 ports of 10/100Based-T to meet the requirements of high-bandwidth access Ethernet, Fast Ethernet or Gigabit Ethernet in tough operating temperatures.
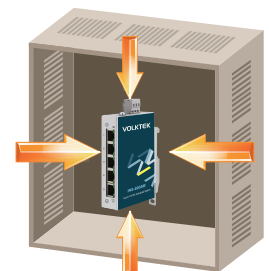
Industrial Grade EMC Protection Design

• Volktek industrial switches are built with robust protection features including surge and ESD protection to deliver increased level of immunity against industrial voltage transients.

• Volktek industrial switches comply with Industry tandards EN61000-6-2 and EN61000-6-4 to withstand up to 8KV high ESD protection level and dual power inputs to provide a very high reliable system.

Simplified Installation w/ Compact Size

The INS-8005M provides varied choice of deployment locations even in small places, harsh environments with its wall-mount, rack-mount and desktop options in a quick and easy way by its compact size and no configuration required. Every INS-8005M is equipped with auto MDI/MDI-X on all ports for simple connection to other switches and hubs. With diagnostic LEDs panel, the INS-8005M allows you to know switch status and simplify troubleshooting.

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Certificates & Approvals
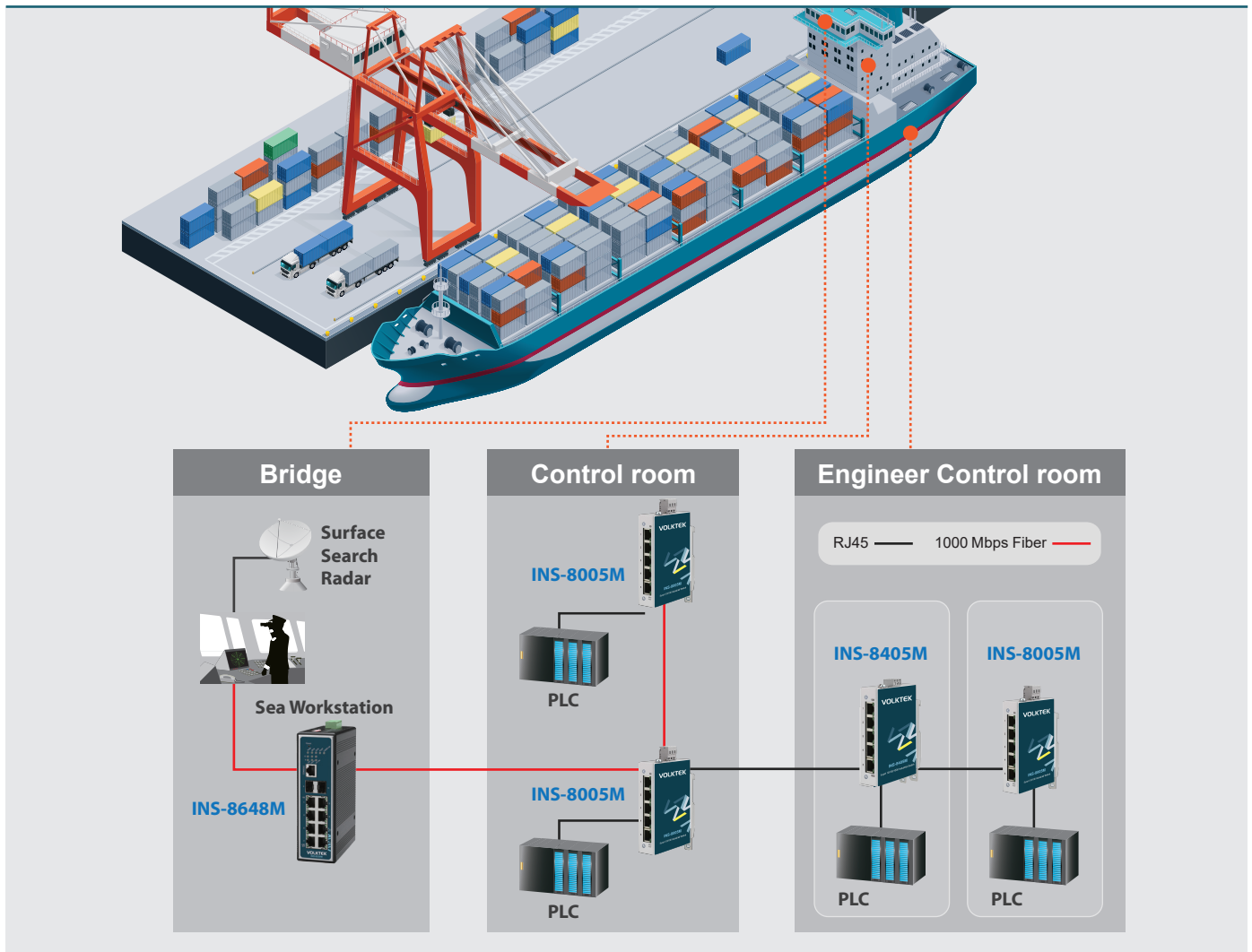
Marine
Type Approval

DNV
TYPE APPROVED PRODUCT
DNV.COM/AF

EN 60945

Marine Certifications Ensure Secure Communication Networks for Offshore Environments

Applications

Bridge

Surface Search Radar

Sea Workstation

INS-8648M

Control room

INS-8005M

PLC

INS-8005M

PLC

Engineer Control room

RJ45 ——— 1000 Mbps Fiber ———

INS-8405M

INS-8005M

PLC

PLC

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Specifications

Standards	
IEEE 802.3	10BASE-T
IEEE 802.3u	100BASE-TX
IEEE 802.3	Nway Auto-negotiation
IEEE 802.3x	Flow Control

Interface	
Ports	5 x 10/100BASE-TX (RJ45)
LED Panel	PWR, 100, LNK/ACT

Features	
Performance	Jumbo Frame Size: 1536 Bytes
	MAC Table size: 2K
	Throughput: 14,880 pps to 10 Mbps ports
	148,800 pps to 100 Mbps ports
	Switch Fabric: 1.0Gbps

Power	
Input Voltage	18~30VDC
Connection	Terminal Block
Power Consumption	3W
Surge Protection	6KV
ESD Protection	8KV

Mechanical and Environment	
Housing	Aluminum Case (IP30 protection)
Mounting	DIN-Rail, Wall Mount
Operating Temperature	-40°C~75°C (-40°F~167°F)
Storage Temperature	-40°C to 85°C (-40°F~185°F)
Operating Humidity	5 to 95% RH (non-condensing)
Storage Humidity	5 to 95% RH (non-condensing)
Weight	145 g (0.3 lb)
Dimension (WxHxD)	23.6 x 111.5 x 73.8 mm (0.93 x 4.39 x 2.90 in)

Standards and Certifications			
CE	EMI		FCC Part 15 Subpart B class A EN 55022
			EN 55011
			EN 61000-6-4
	EMS		EN 55024
			EN 61000-6-2
			EN 61000-4-2 (ESD): Level 3
			EN 61000-4-3 (RS): Level 3
			EN 61000-4-4 (Burst): Level 3
			EN 61000-4-5 (Surge): Level 2
			EN 61000-4-6 (CS): Level 3
Marine			DNV-CS-0339:2016
			DNV-RU-SHIP-Pt4Ch9:2018
			IEC-60945, IACS E10 (Rev.6 2014)
Shock Test			IEC 60068-2-27 (Processing)
Freefall Test			IEC 60068-2-32 (Processing)
Vibration			IEC 60068-2-6 (Processing)

Ordering Information	
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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.

Dimension