

# 9065-8T2GS-MR

## L2+ Managed 8 x 10/100 RJ45 & 2 x FX/GbE SFP Industrial Switch, DNV Marine Approval

### Description

Are you prepared for a networking solution that transcends the ordinary? Look no further than our 9065-8T2GS-MR, a Managed 8 x 10/100 RJ45 & 2 x FX/GbE SFP Industrial Switch meticulously crafted to excel in the most demanding environments.

Designed to meet the stringent DNV certification standards, the 9065-8T2GS-MR switch delivers robust and reliable performance for mission-critical applications on ships, offshore platforms, and port facilities. Encased in a rugged, hardened shell and equipped with components designed to withstand extreme vibration and shock, it ensures uninterrupted operation even under the harshest conditions.

Built to thrive in extreme climates, it performs flawlessly across a wide temperature range, from -40°C to 75°C. No matter the environment, the 9065-8T2GS-MR guarantees the seamless operation of your network.

Each port is equipped with dual LEDs, providing instant feedback on link status, transmission speed, and activity. In addition, a relay output for event alarms keeps you informed at all times. In case of a power failure, a built-in LED alarm is automatically activated, ensuring administrators receive timely notifications.

But the 9065-8T2GS-MR is more than just a switch—it is a tailored networking solution designed for the future of industrial applications. It provides the essential network backbone for onboard systems, offshore automation, and new energy, delivering unmatched reliability where it matters most.



### Features Highlight

#### SNMP Remote Management

SNMP is used for collecting information from, and configuring, network devices on an Internet Protocol (IP) network. Volktek Managed switch provides an SNMP agent that works with third-party SNMP management software to monitor the device status.

#### Recovery Timer for Loop Detection

Instead of being re-opened manually, a configurable timer is provided to automatically recover a port blocked by the loop detection function.

#### RMON

Remote Network Monitoring is a network analysis protocol, designed to aid the network administrator in gathering data on network operations such as traffic data both historical and real-time, and configurable data based on variables for time, highest or lowest traffic, users, and more.

#### ACL

The L2/L3/L4 Access Control List (ACL) function allows you to create filter rules for determining whether the switch will forward specific packets (based on information contained in the headers) for security or control reasons. These criteria cover multiple protocol layers (including MAC and IP) and port numbers. It enables network operators to flexibly control the traffic (like blocking traffic from P2P software or throwing away packets destined for unused port numbers, which might be hacker attacks).

#### Dual Fiber Ports

It's useful connectivity to save the cost for fiber cable deployment. With this dual fiber link support, users can acquire the benefits of link redundancy with ring-aware switches, like Volktek management switches.

# Marine

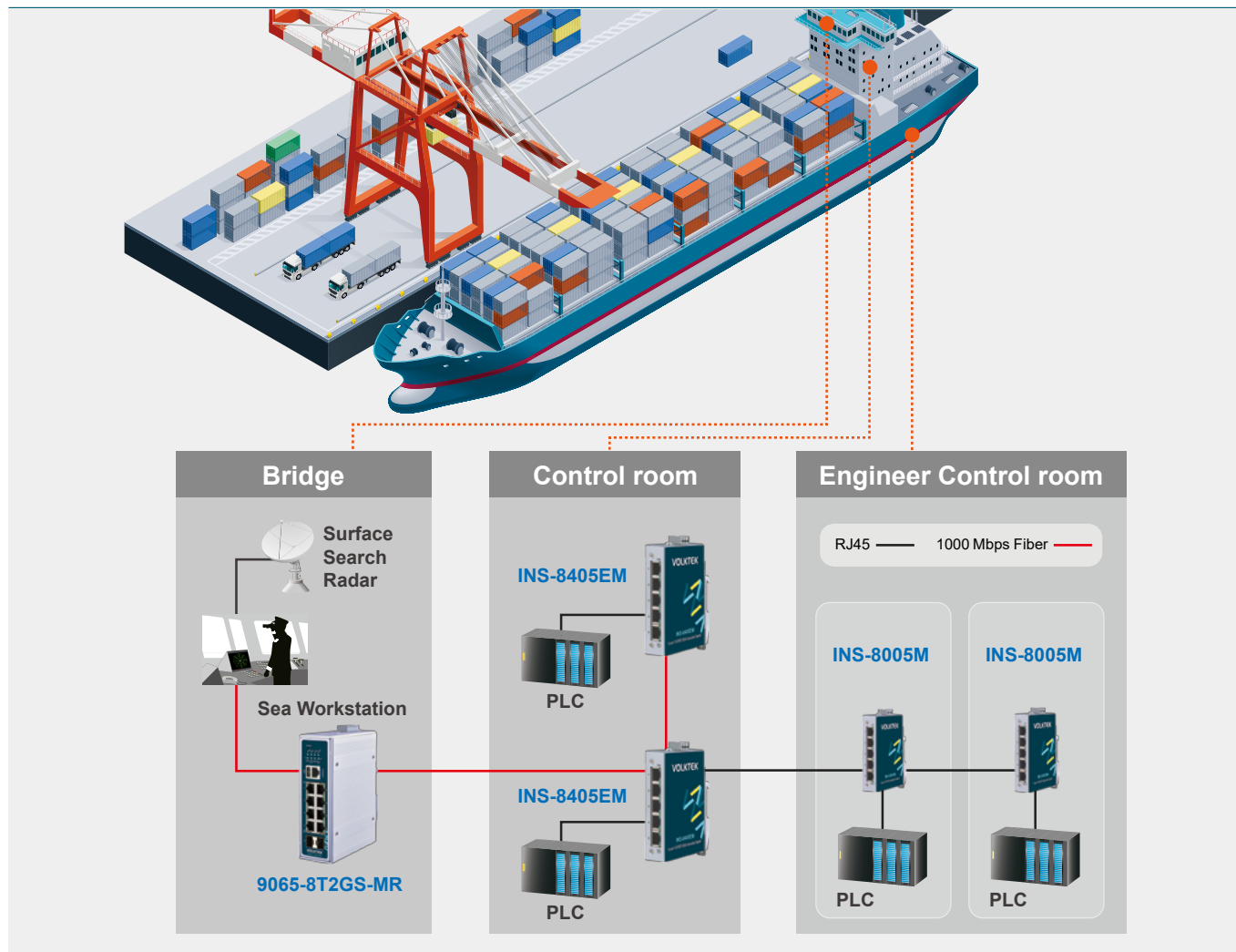
## Type Approval

TYPE APPROVED PRODUCT

EN 60945

Marine Certifications Ensure Secure Communication Networks for Offshore Environments

## Applications



## Specifications

Standards	
IEEE 802.3	10BASE-T
IEEE 802.3u	100BASE-TX
IEEE 802.3 Nway	Auto-negotiation
IEEE 802.3x	Flow Control
IEEE 802.1D	STP
IEEE 802.1w	RSTP
IEEE 802.1s	MSTP
IEEE 802.1Q	VLAN Tagging
IEEE 802.1v	Protocol-based VLAN
IEEE 802.1ad	QinQ
IEEE 802.1p	Class of service
IEEE 802.3ad	Link Aggregation
IEEE 802.1ab	LLDP
ITU-T G.8032	ERPS
IEEE 802.1X	Port Authentication
IEEE 1588v2	PTP
IEEE 802.3az	Energy Efficient Ethernet (EEE)
Interface	
Ports	8 x 10/100 RJ45
	2 x FX/GbE SFP
	1 x RS232 Console Port
	1 x USB Port
DIP Switch	Primary/Redundant Power Voltage Drop Alarm setting
LED Panel	PWR, RPS, ALM, POST, 100, 1000, LNK/ACT
Features	
Performance	Jumbo Frames Size: 10Kbytes
	MAC Table Entries: 16K
	Active VLAN: 4K
	Switching Fabric: 5.6Gbps
Forwarding Rate: 4.1Mpps	
Management	CLI, Telnet/SSH, HTTP/HTTPS, SNMP v1/v2c/v3, SNMP Trap, MVLAN, Firmware Upgradable, Configuration Backup/Restore, Syslog, SNTF, PTP, LLDP, UDLD, DHCP Client, DHCP Option 82, DHCP Relay, PPPoE IA, e-mail Alarm, Server Control, Mirroring, DDM, MIB, Hardware Monitor, DDMI, RMON, FTP/TFTP
Reliability	STP/RSTP/MSTP, Xpress Ring, ERPS v1/v2, Dual Homing, LACP, Code Redundancy, Static Trunk
VLAN	IEEE 802.1Q, GARP/GVRP, Port-based VLAN, MAC-based VLAN, IP-based VLAN, VLAN Translation, Protocol-based VLAN, Management VLAN, VLAN Stacking (QinQ)
Traffic Control	IGMP snooping/Throttling/Proxy, MLD, MVR, QoS, Flow Control, Abnormal Traffic Detection, Rate Limit, Storm Control, Traffic Monitor, Port Isolation, Loop Detection, Static Route, Inter-VLAN Routing, IGMP Querier, IGMP Message Filtering
Security	ACL, SSH, 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, Management Host, HTTPS, MAC aging time, IP Source Guard, MAC Anti-spoofing
Power	
Input Voltage	Primary inputs: 12-48VDC (Nominal 24VDC for marine use)
	Redundant inputs: 12-48VDC (Nominal 24VDC for marine use)
Power Consumption	18W

Mechanical and Environment		
Housing	Aluminum (IP40 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	970 g (2.2 lb)	
Dimension (W x H x D)	50 x 161.5 x 119.9 mm (1.97 x 6.36 x 4.72 in)	
Certifications		
CE	EMI	FCC Part 15 Subpart B Class A EN 55032 / UKCA Class A EN55035 / UKCA CISPR 32 Class A EN 55011 / UKCA Class A CISPR 11 Class A
	EMS	EN 61000-6-4 / UKCA ICES-003 Issue 7 EN 61000-6-2 / UKCA EN 61000-4-2 (ESD) EN 61000-4-3 (RS) EN 61000-4-4 (EFT) EN 61000-4-5 (Surge) EN 61000-4-6 (CS) IEC 61000-4-8 (PFMF)
Marine	DNV-CG-0339: 2021 DNV-RU-SHIP-Pt4Ch9: 2024 IEC-60945, IACS E10 (Rev.9 2023) LR certify environmental category ENV1, ENV2, and ENV3	
Shock	IEC 60068-2-27	
Freefall	IEC 60068-2-31	
Vibration	IEC 60068-2-6	
Safety	UL 61010-1, UL 61010-2-201	
Ordering Information		
9065-8T2GS-MR	L2+ Managed 8 x 10/100 RJ45 & 2 x FX/GbE SFP Industrial Switch, DNV Marine Approval, USB support	
Optional Accessories		
GBM-123TS	1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10Km	
GBM-123RS	1000BASE-LX, Bi-Di SFP TX:1550/RX:1310 Single Mode, 10Km	

**Note:**

\* The highest degree of temperature operation certified by UL is -40°C~75°C (-40°F~167°F).

\* 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 switch enclosure is designed to meet IP40 ingress protection, while the device is DNV type approved with an ingress protection rating of IP20.

\* Specifications subject to change without notice.

## Dimension

