VOLKTEK

SEN-9648PM-24V

L2+ Managed 8 x 10/100/1000 PoE+ & 4 x GbE SFP Industrial Switch, DNV Marine Approval

Description

Volktek's SEN-9648PM-24V Managed Industrial switch is equipped with 8 port 10/100/1000Base-T and 4 Gigabit SFP slots that are PoE+ compliant. Under DNV (Det Norske Veritas and Germanischer Lloyd) certified for Industrial switch, the SEN-9648PM suits your anti-corrosion harsh environments in marine & offshore applications and contains all the standard features of a industrial managed PoE switch. Engineered with hardened components and enclosed in a rugged case, the switch can operate in wide temperatures from -40°C to 75°C and excellent tolerance capability to high vibration and shock.

SEN-9648PM-24V supplies up to 30W on its 8 PoE+ (IEEE 802.3at) ports to satisfy the Ethernet and Power demands for an interactive network with its advanced and time saving PoE+ features that allow users to automate PDs such as WLAN Access Points, VoIP phones, IP Cams. Moreover, SEN-9648PM-24V is a Layer 2 switch that offers additional enhanced features for encompassed management with RMON, SNMP v1/v2c/v3, SNTP, network recovery in milliseconds, and advanced network cybersecurity features and traffic control.























Features Highlight

Robust Switch Performance

SEN-9648PM-24V is built with IP30 aluminum case protection, surge and ESD protection to deliver robust performance and withstand extreme conditions in Industrial environments. The SFP ports support 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.



High-Power Budget for PoE Network Devices

To reduce the required time and cost of installing additional electrical sources, the SEN-9648PM-24V implements PoE+ technology. The switch supplies power over the same cable that is used to carry network traffic and delivers a high power budget of 240W to suit various power requirements. Using SNMP and Web interface, the PoE+ functions on each port can be enabled and disabled to save power and energy.



Intelligent PoE+ for powered devices

The SEN-9648PM-24V is designed with intelligent PoE+ features to utilize power more efficiently. To monitor real-time status of PDs, the switch sends alive-checking packets to PDs. This reduces management burden and increases system reliability. Using power scheduling mechanism of the switch, administrators can set power on each port to a desired hourly/weekly schedule and can enable or disable the power output to these devices accordingly.

PoE Scheduling





PoE Alive-Checking





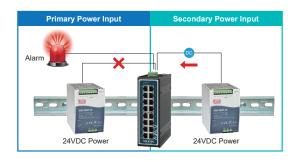
VOLKTEK

Features Highlight



Redundant Power Input 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 as well as data to such applications is now made easy with SEN-9648PM-24V'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.



Efficient network monitoring and proactive capability

In a network, the issues that impact network performance can be quickly resolved with the SEN-9648PM-24V's most accepted and enhanced traffic management, monitoring and analysis protocols such as SNMP and RMON. SNMP allows end users to centrally manage different levels in a network and RMON gives the capability to monitor the network performance. Service providers can ensure a reliable network by identifying connectivity and performance issues and isolating the problem remotely on individual switches. This avoids high OPEX and provides administrators the control they need to manage a healthy and efficient network.

Bandwidth management to prevent unpredictable network status

Industrial surveillance applications need different levels of services delivered to them reliably without any transmission delays and interruptions. The SEN-9648PM-24V has comprehensive QoS mechanisms which assign priority to applications and sends only specific dedicated traffic to them. In addition, bandwidth management function of the switch allocates high bandwidths to mission-critical communications and reduce the bandwidth to applications that are less critical. With full control of limiting the bandwidth, the administrators can prevent unpredictable errors and utilize the bandwidth more effectively.

Redundant Ring and Fast Recovery for Surveillance System

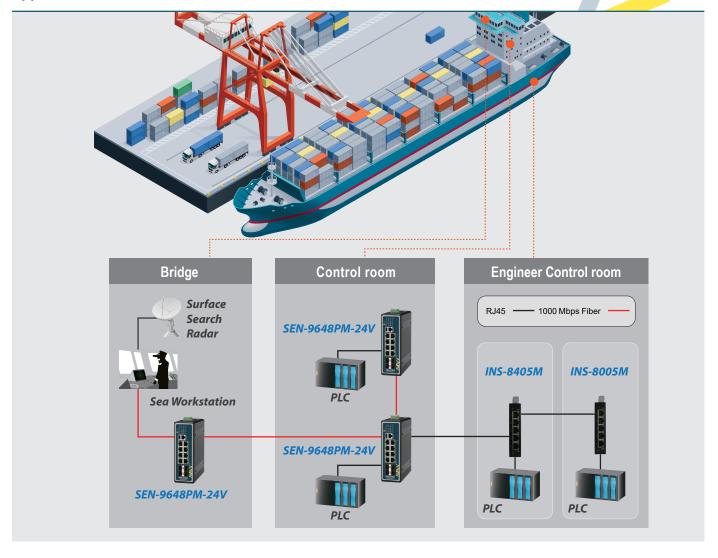
Even few seconds of missed communications due to link failures, especially in IP surveillance systems, can cause inconvenience and recovering it becomes very critical. Featuring with Xpress Ring, SEN-9648PM-24V can rapidly react to such link failures and recovers it within less than 10ms, a much faster fail-over time to support nonstop transmissions. And to handle the heavy traffic load of video and data, the switch implements.

Certificates & Approvals



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Applications





Specifications

Standards	
IEEE 802.3	10BASE-T
IEEE 802.3u	100BASE-TX
IEEE 802.3ab	1000BASE-T
IEEE 802.3z	1000BASE-SX/LX
IEEE 802.3	Nway Auto-negotiation
IEEE 802.3x	Flow Control
IEEE 802.3ad	Link Aggregation
IEEE 802.3af	Power over Ethernet
IEEE 802.3at	Power over Ethernet Plus
IEEE 802.3az	Energy Efficient Ethernet (EEE)
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	0 40/400/4000PAOF T (D F D 45)
Ports	8 x 10/100/1000BASE-T (PoE RJ45)
	4 x GbE SFP Slots
	1 x RJ45 Console Port
	1 x USB Port
DIP Switch	Primary/Redundant Power Voltage Drop
	Alarm setting
LED Panel	PWR, RPS, ALM, POST, PoE, 1000, LNK/ACT
Features	
Features Performance	Jumbo frame Size: 10KBytes
	Jumbo frame Size: 10KBytes MAC Table Entries: 16K
	·
	MAC Table Entries: 16K
	MAC Table Entries: 16K Active VLAN: 4K
	MAC Table Entries: 16K Active VLAN: 4K Switch Fabric: 24Gbps
Performance	MAC Table Entries: 16K Active VLAN: 4K Switch Fabric: 24Gbps L2 Forwarding Rate: 17.9Mpps
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Management Reliability VLAN Traffic Control	MAC Table Entries: 16K Active VLAN: 4K Switch Fabric: 24Gbps L2 Forwarding Rate: 17.9Mpps CLI, Telnet/SSH, HTTP/HTTPs, SNMP v1/v2c/v3, RMON, SNMP Trap, MVLAN, Firmware Upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, UDLD, DHCP Client, DHCP Option 82, e-mail Alarm, Service Control, DDM STP/RSTP/MSTP, Xpress Ring, ERPS v1/v2, Dual Homing, LACP, Code Redundancy IEEE 802.1Q, GARP/GVRP, Port-based VLAN, MAC-based VLAN, IP-based VLAN, Protocol-based VLAN, QinQ IGMP snooping/Throttling/Proxy, MVR, QoS, Flow Control, Abnormal Traffic Detection, Rate Limit, Storm Control, Port Isolation, Loop Detection, Modbus TCP
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Management Reliability VLAN Traffic Control Security	MAC Table Entries: 16K Active VLAN: 4K Switch Fabric: 24Gbps L2 Forwarding Rate: 17.9Mpps CLI, Telnet/SSH, HTTP/HTTPs, SNMP v1/v2c/v3, RMON, SNMP Trap, MVLAN, Firmware Upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, UDLD, DHCP Client, DHCP Option 82, e-mail Alarm, Service Control, DDM STP/RSTP/MSTP, Xpress Ring, ERPS v1/v2, Dual Homing, LACP, Code Redundancy IEEE 802.1Q, GARP/GVRP, Port-based VLAN, MAC-based VLAN, IP-based VLAN, Protocol-based VLAN, QinQ IGMP snooping/Throttling/Proxy, MVR, QoS, Flow Control, Abnormal Traffic Detection, Rate Limit, Storm Control, Port Isolation, Loop Detection, Modbus TCP ACL, SSH, Port Security, Port-based 802.1x, MAC-based 802.1x, TACACS+, MAC limit, MAC Search, Refusal MAC, Static MAC, DHCP Snooping, DHCP Sever Screening, ARP Inspection, BPDU Guard/Filter, Root Guard, Management Host
Management Reliability VLAN Traffic Control	MAC Table Entries: 16K Active VLAN: 4K Switch Fabric: 24Gbps L2 Forwarding Rate: 17.9Mpps CLI, Telnet/SSH, HTTP/HTTPs, SNMP v1/v2c/v3, RMON, SNMP Trap, MVLAN, Firmware Upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, UDLD, DHCP Client, DHCP Option 82, e-mail Alarm, Service Control, DDM STP/RSTP/MSTP, Xpress Ring, ERPS v1/v2, Dual Homing, LACP, Code Redundancy IEEE 802.1Q, GARP/GVRP, Port-based VLAN, MAC-based VLAN, IP-based VLAN, Protocol-based VLAN, QinQ IGMP snooping/Throttling/Proxy, MVR, QoS, Flow Control, Abnormal Traffic Detection, Rate Limit, Storm Control, Port Isolation, Loop Detection, Modbus TCP ACL, SSH, Port Security, Port-based 802.1x, MAC-based 802.1x, TACACS+, MAC limit, MAC Search, Refusal MAC, Static MAC, DHCP Snooping, DHCP Sever Screening, ARP Inspection, BPDU Guard/Filter, Root Guard,

Input Voltage	Power		
Connection	Input V	oltage	Primary inputs: 24~57VDC
Power Consumption System: 18W			Redundant inputs: 24~57VDC
PoE Power Budget: 120W@24VDC	Connection		Teminal Block
Aluminum (IP30 Protection)	Power Consumption		System: 18W
One relay output, 1 A @ 24V DC	Alarm F	Relay	PoE Power Budget: 120W@24VDC
Mechanical and Environment			240W@48VDC
Mechanical and Environment			One relay output, 1 A @ 24V DC
Housing	Mecha	nical and Envi	
Storage Temperature			
Storage Temperature	Mounting		DIN-Rail
Storage Temperature			-40°C~75°C (-40°F~167°F)
Storage Humidity 5 to 95% RH (non-condensing)			-40°C~85°C (-40°F~185°F)
Weight 955 g (2.1 lb) Dimension (WxHxD) 50 x 160 x 120 mm (1.97 x 6.3 x 4.72 in) Certifications CE EMI FCC Part 15 Subpart B Class A EN 55011 Class A EN 55011 / BS EN 55032 Class A EN 55032 / BS EN 55032 Class A EN 51000-6-4 / BS EN 51000-6-4 EMS EN 55035 / BS EN 55035 EN 61000-6-2 (EN 61000-4-2 (ESD), EN 61000-4-3 (RS)) EN 61000-4-2 (ESD), EN 61000-4-5 (Surge) 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 (EC-60945, IACS E10 (Rev.6 2014) LR certify environmental category ENV1, ENV2, and ENV3 Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vibration IEC 60068-2-32 Vibration IEC 60068-2-6 Ordering Information SEN-9648PM-24V L2+ Managed 8 x 10/100/1000 PoE+ & 4 x GbE SFP Switch, -40°C~75°C (-40°F~167°F) Optional Accessories Power Supply 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)	Operati	ng Humidity	5 to 95% RH (non-condensing)
Dimension (WxHxD) 50 x 160 x 120 mm (1.97 x 6.3 x 4.72 in)			5 to 95% RH (non-condensing)
Dimension (WxHxD) 50 x 160 x 120 mm (1.97 x 6.3 x 4.72 in)	Weight		955 g (2.1 lb)
CE	Dimens	sion (WxHxD)	50 x 160 x 120 mm (1.97 x 6.3 x 4.72 in)
EN 55011 / BS EN 55011 Class A	Certifi	cations	
EMS EN 55032 / BS EN 55032 Class A EN 51000-6-4 / BS EN 51000-6-4 EMS EN 55035 / BS EN 55035 EN 61000-6-2 / BS 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) LR certify environmental category ENV1, ENV2, and ENV3 Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vibration IEC 60068-2-32 Vibration JEC 60068-2-6 Ordering Information SEN-9648PM-24V L2+ Managed 8 x 10/100/1000 PoE+ & 4 x GbE SFP Switch, -40°C~75°C (-40°F~167°F) Optional Accessories Power Supply SDR-480P-48: 480W 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)	CE	EMI	FCC Part 15 Subpart B Class A
EMS EMS EN 51000-6-4 / BS EN 51000-6-4 EMS EN 55035 / BS EN 55035 EN 61000-6-2 / BS 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) LR certify environmental category ENV1, ENV2, and ENV3 Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vibration JEC 60068-2-6 Ordering Information SEN-9648PM-24V L2+ Managed 8 x 10/100/1000 PoE+ & 4 x GbE SFP Switch, -40°C~75°C (-40°F~167°F) Optional Accessories Power Supply SDR-480P-48: 480W 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)			EN 55011 / BS EN 55011 Class A
EMS EN 55035 / BS EN 55035 EN 61000-6-2 / BS 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) LR certify environmental category ENV1, ENV2, and ENV3 Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vibration IEC 60068-2-32 Vibration SEN-9648PM-24V L2+ Managed 8 x 10/100/1000 PoE+ & 4 x GbE SFP Switch, -40°C~75°C (-40°F~167°F) Optional Accessories Power Supply SDR-480P-48: 480W 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)			EN 55032 / BS EN 55032 Class A
EN 61000-6-2 / BS 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) LR certify environmental category ENV1, ENV2, and ENV3 Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vibration IEC 60068-2-6 Ordering Information SEN-9648PM-24V L2+ Managed 8 x 10/100/1000 PoE+ & 4 x GbE SFP Switch, -40°C~75°C (-40°F~167°F) Optional Accessories Power Supply SDR-480P-48: 480W 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)			EN 51000-6-4 / BS EN 51000-6-4
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) LR certify environmental category ENV1, ENV2, and ENV3 Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vibration IEC 60068-2-6 Ordering Information SEN-9648PM-24V L2+ Managed 8 x 10/100/1000 PoE+ & 4 x GbE SFP Switch, -40°C~75°C (-40°F~167°F) Optional Accessories Power Supply SDR-480P-48: 480W 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)		EMS	EN 55035 / BS EN 55035
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) LR certify environmental category ENV1, ENV2, and ENV3 Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vibration IEC 60068-2-6 Ordering Information SEN-9648PM-24V L2+ Managed 8 x 10/100/1000 PoE+ & 4 x GbE SFP Switch, -40°C~75°C (-40°F~167°F) Optional Accessories Power Supply SDR-480P-48: 480W 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)			EN 61000-6-2 / BS EN 61000-6-2
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) LR certify environmental category ENV1, ENV2, and ENV3 Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vibration IEC 60068-2-6 Ordering Information SEN-9648PM-24V L2+ Managed 8 x 10/100/1000 PoE+ & 4 x GbE SFP Switch, -40°C~75°C (-40°F~167°F) Optional Accessories Power Supply SDR-480P-48: 480W 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)			EN 61000-4-2 (ESD), EN 61000-4-3 (RS)
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LR certify environmental category ENV1, ENV2, and ENV3 Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vibration IEC 60068-2-6 Ordering Information SEN-9648PM-24V L2+ Managed 8 x 10/100/1000 PoE+ & 4 x GbE SFP Switch, -40°C~75°C (-40°F~167°F) Optional Accessories Power Supply SDR-480P-48: 480W 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)			DNV-RU-SHIP-Pt4Ch9:2018
and ENV3 Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vibration IEC 60068-2-6 Ordering Information SEN-9648PM-24V L2+ Managed 8 x 10/100/1000 PoE+ & 4 x GbE SFP Switch, -40°C~75°C (-40°F~167°F) Optional Accessories Power Supply SDR-480P-48: 480W 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)			IEC-60945, IACS E10 (Rev.6 2014)
Shock IEC 60068-2-27			LR certify environmental category ENV1, ENV2,
IEC 60068-2-32			and ENV3
Vibration IEC 60068-2-6 Ordering Information L2+ Managed 8 x 10/100/1000 PoE+ & 4 x GbE SFP Switch, -40°C~75°C (-40°F~167°F) Optional Accessories SDR-480P-48: 480W 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)	Shock		IEC 60068-2-27
Ordering Information SEN-9648PM-24V L2+ Managed 8 x 10/100/1000 PoE+ & 4 x GbE SFP Switch, -40°C~75°C (-40°F~167°F) Optional Accessories SDR-480P-48: 480W 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)	Freefall		IEC 60068-2-32
SEN-9648PM-24V L2+ Managed 8 x 10/100/1000 PoE+ & 4 x GbE SFP Switch, -40°C~75°C (-40°F~167°F) Optional Accessories SDR-480P-48: 480W 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)	Vibratio	on	IEC 60068-2-6
SFP Switch, -40°C~75°C (-40°F~167°F) Optional Accessories	Ordering Information		
Optional Accessories Power Supply SDR-480P-48: 480W 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)	SEN-96	48PM-24V	•
Power Supply SDR-480P-48: 480W 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)			SFP Switch, -40°C~75°C (-40°F~167°F)
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-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)	Power	Supply	
GBM-123TS 1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10Km, 0°C~70°C (32°F~158°F)			,
Single Mode, 10Km, 0°C~70°C (32°F~158°F)			
3 , , , , , , , , , , , , , , , , , , ,	GBM-123TS		1000BASE-LX, Bi-Di SFP TX:1310/RX:1550
GBM-123RS 1000BASE-LX, Bi-Di SFP TX:1550/RX:1310			Single Mode, 10Km, 0°C~70°C (32°F~158°F)
	GBM-12	23RS	,
Single Mode, 10Km, 0°C~70°C (32°F~158°F)			Single Mode, 10Km, 0°C~70°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.



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Dimension

