## **VOLKTEK**

## **SEN-8428PL**

## Lite Managed PoE+ Industrial Switch 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP

#### **Description**

Realizing the essentiality in ease of use for 24/7 surveillance for today's society, Volktek develops SEN-8428PL Lite Managed Industrial PoE+ switch. The SEN-8428PL is engineered with hardened components and enclosed in a case which can operate in wide temperature from -10°C to 60°C, and playful even in harsh environments providing reliable surveillance.

The switch is compiled with intelligent PoE+ (IEEE 802.3af/at) function on 8-Gigabit copper ports and allows to supply up to 30W per port power budget over the single Ethernet cable to satisfy Powered Devices such as Wireless AP, VoIP phones and IP cameras eliminating the need of external power outlets. The 2-slot 100FX/Gigabit SFP give the advantages of configuring ring topologies for a safe, reliable and long distance Gigabit connectivity. In addition, the switch offers an easy to use of management functions to allow configuration and monitoring. Designed with sufficient beneficial features, SEN-8428PL can be considered as a reliable option for harsh outdoor surveillance.















#### **Features Highlight**

#### Robust Switch Performance

With a hardened metal case, surge and ESD protection, the SEN-8428PL provides a high level of immunity against electromagnetic interference and heavy electrical surges, thus facilitating easy deployment in demanding environments. In addition, the SEN-8428PL offers high performance switch architecture with eight 10/100/1000BASE-T ports and two 100FX/Gigabit Ethernet SFP slots to meet the requirements of high-bandwidth access in wide operating temperatures.



#### High-Power Budget for PoE Network Devices

To fulfill the growing demand of high-bandwidth, high-power PoE for network applications and eliminating the cost of electrical cabling and circuits, the SEN-8428PL is designed under IEEE 802.3at standard PoE+. With 240W PoE power budget capability for whole system, the switch allows simple "plug-n-play" PoE for various types of high power consuming PoE devices. This makes the SEN-8428PL a very convenient solution for applications far away from power outlets satisfying PoE extension applications in much longer distances.



#### Intelligent PoE Alive Checking

The SEN-8428PL is designed with intelligent PoE+ features to utilize power more efficient. To monitor real-time status of PDs, the switch sends alive-checking packets to PDs. If a PD fails to respond, the switch's PD live check feature detects the failure and reactivates the PD. This reduces management burden and increases system reliability.





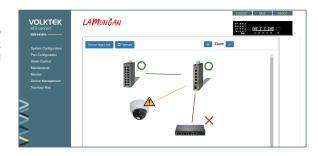
## **VOLKTEK**

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#### **Features Highlight**

#### Introducing the LAMUNGAN

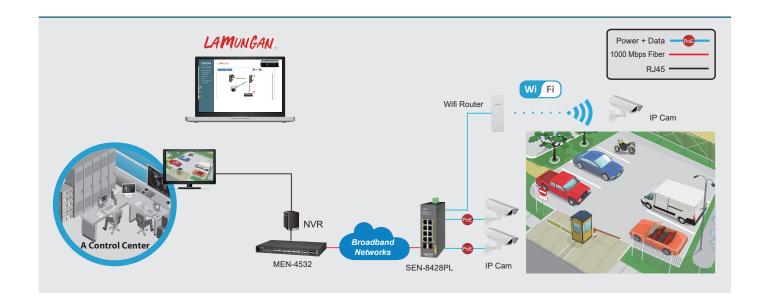
LAMUNGAN is Volktek's embedded Element Management System that allows users to view the topology map of connected devices and neighboring switches along with the link status. Its LLDP feature allows it to advertise its identities and capabilities on the wired Ethernet. This map like feature simplifies the network connection viewing and helps patterning by clicking on the icon.



#### Future-proof Fiber Connectivity with Dual 100FX/Gigabit SFP Slots

With two multirate SFP slots, the SEN-8428PL easily establishes fiber channel for gigabit Ethernet connectivity and allows to take advantage of fiber based daisy chain topology. The switch provides long distance, high-speed fiber connectivity while offering enhanced noise immunity and data security across deployed systems. The SEN-8428PL is a well-suited robust, cost-effective and future-proof solution for fiber based surveillance networks.

#### **Applications**



## **VOLKTEK**

### **Specifications**

Standards	
IEEE 802.3	10BASE-T
IEEE 802.3u	100BASE-TX
IEEE 802.3ab	1000BASE-T
IEEE 802.3u	100BASE-FX
IEEE 802.3z	1000BASE-SX/LX
IEEE 802.3	Nway Auto-negotiation
IEEE 802.3x	Flow Control
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 802.1D	STP
IEEE 802.1w	RSTP
IEEE 802.1p	Class of Service
IEEE 802.1Q	VLAN tagging
IEEE 802.1X	Port Authentication
Interface	1 of Additionication
Interrace	9 × 10/100/1000PASE T (Dat D 145)
Ports	8 x 10/100/1000BASE-T (PoE RJ45)
	2 x 100FX/GbE SFP
DIP Switch	Power voltage drop alarm setting (PWR & RPS),
	Broadcast strom control setting (STORM),
	Port-based QoS setting (QoS on P1 & P2),
	Fiber port speed setting (100FX on P9 & P10)
LED Panel	PWR, RPS, ALM, SFP, PoE, 1000, LNK/ACT
Features	
reatures	
	Jumbo frame Size: 10KBytes
Performance	MAC Table Entries: 8K
	MAC Table Entries: 8K Switch Fabric: 20Gbps
	MAC Table Entries: 8K Switch Fabric: 20Gbps CLI, Telnet, SSH, HTTP, HTTPs, SNMP v1/v2c,
	MAC Table Entries: 8K Switch Fabric: 20Gbps CLI, Telnet, SSH, HTTP, HTTPs, SNMP v1/v2c, SNMP v3, SNMP Trap, Management VLAN (MVLAN),
	MAC Table Entries: 8K Switch Fabric: 20Gbps CLI, Telnet, SSH, HTTP, HTTPs, SNMP v1/v2c,
	MAC Table Entries: 8K Switch Fabric: 20Gbps CLI, Telnet, SSH, HTTP, HTTPs, SNMP v1/v2c, SNMP v3, SNMP Trap, Management VLAN (MVLAN),
	MAC Table Entries: 8K Switch Fabric: 20Gbps CLI, Telnet, SSH, HTTP, HTTPs, SNMP v1/v2c, SNMP v3, SNMP Trap, Management VLAN (MVLAN), Firmware upgradable, Configuration Backup/Restore,
Performance	MAC Table Entries: 8K Switch Fabric: 20Gbps CLI, Telnet, SSH, HTTP, HTTPs, SNMP v1/v2c, SNMP v3, SNMP Trap, Management VLAN (MVLAN), Firmware upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client, Port Mirroring
Performance	MAC Table Entries: 8K Switch Fabric: 20Gbps CLI, Telnet, SSH, HTTP, HTTPs, SNMP v1/v2c, SNMP v3, SNMP Trap, Management VLAN (MVLAN), Firmware upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client, Port Mirroring Server (service) control, Port Utilization,
Performance	MAC Table Entries: 8K Switch Fabric: 20Gbps CLI, Telnet, SSH, HTTP, HTTPs, SNMP v1/v2c, SNMP v3, SNMP Trap, Management VLAN (MVLAN), Firmware upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client, Port Mirroring Server (service) control, Port Utilization, Alarm Information, ModbusTCP, Power Down trap
Performance	MAC Table Entries: 8K Switch Fabric: 20Gbps CLI, Telnet, SSH, HTTP, HTTPs, SNMP v1/v2c, SNMP v3, SNMP Trap, Management VLAN (MVLAN), Firmware upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client, Port Mirroring Server (service) control, Port Utilization, Alarm Information, ModbusTCP, Power Down trap Topology Map, Dashboard, Installation Wizard
Performance	MAC Table Entries: 8K Switch Fabric: 20Gbps CLI, Telnet, SSH, HTTP, HTTPs, SNMP v1/v2c, SNMP v3, SNMP Trap, Management VLAN (MVLAN), Firmware upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client, Port Mirroring Server (service) control, Port Utilization, Alarm Information, ModbusTCP, Power Down trap Topology Map, Dashboard, Installation Wizard Port Configuration (enable/disable,speed/duplex),
Performance	MAC Table Entries: 8K Switch Fabric: 20Gbps CLI, Telnet, SSH, HTTP, HTTPs, SNMP v1/v2c, SNMP v3, SNMP Trap, Management VLAN (MVLAN), Firmware upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client, Port Mirroring Server (service) control, Port Utilization, Alarm Information, ModbusTCP, Power Down trap Topology Map, Dashboard, Installation Wizard Port Configuration (enable/disable,speed/duplex), ONVIF, Port Statistic, System reboot from remote side
Performance  Management	MAC Table Entries: 8K Switch Fabric: 20Gbps  CLI, Telnet, SSH, HTTP, HTTPs, SNMP v1/v2c, SNMP v3, SNMP Trap, Management VLAN (MVLAN), Firmware upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client, Port Mirroring Server (service) control, Port Utilization, Alarm Information, ModbusTCP, Power Down trap Topology Map, Dashboard, Installation Wizard Port Configuration (enable/disable,speed/duplex), ONVIF, Port Statistic, System reboot from remote side User Account with authority
Performance  Management  Reliability	MAC Table Entries: 8K Switch Fabric: 20Gbps  CLI, Telnet, SSH, HTTP, HTTPs, SNMP v1/v2c, SNMP v3, SNMP Trap, Management VLAN (MVLAN), Firmware upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client, Port Mirroring Server (service) control, Port Utilization, Alarm Information, ModbusTCP, Power Down trap Topology Map, Dashboard, Installation Wizard Port Configuration (enable/disable,speed/duplex), ONVIF, Port Statistic, System reboot from remote side User Account with authority  STP/RSTP, ERPS v1/v2, Code redundancy
Performance  Management  Reliability  VLAN	MAC Table Entries: 8K Switch Fabric: 20Gbps  CLI, Telnet, SSH, HTTP, HTTPs, SNMP v1/v2c, SNMP v3, SNMP Trap, Management VLAN (MVLAN), Firmware upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client, Port Mirroring Server (service) control, Port Utilization, Alarm Information, ModbusTCP, Power Down trap Topology Map, Dashboard, Installation Wizard Port Configuration (enable/disable,speed/duplex), ONVIF, Port Statistic, System reboot from remote side User Account with authority  STP/RSTP, ERPS v1/v2, Code redundancy 802.1Q VLAN, Port-based VLAN (Port Isolation)
Performance  Management  Reliability	MAC Table Entries: 8K Switch Fabric: 20Gbps CLI, Telnet, SSH, HTTP, HTTPs, SNMP v1/v2c, SNMP v3, SNMP Trap, Management VLAN (MVLAN), Firmware upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client, Port Mirroring Server (service) control, Port Utilization, Alarm Information, ModbusTCP, Power Down trap Topology Map, Dashboard, Installation Wizard Port Configuration (enable/disable,speed/duplex), ONVIF, Port Statistic, System reboot from remote side User Account with authority STP/RSTP, ERPS v1/v2, Code redundancy 802.1Q VLAN, Port-based VLAN (Port Isolation) 802.1p QoS, Flow Control, Traffic Monitor
Performance  Management  Reliability  VLAN	MAC Table Entries: 8K Switch Fabric: 20Gbps  CLI, Telnet, SSH, HTTP, HTTPs, SNMP v1/v2c, SNMP v3, SNMP Trap, Management VLAN (MVLAN), Firmware upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client, Port Mirroring Server (service) control, Port Utilization, Alarm Information, ModbusTCP, Power Down trap Topology Map, Dashboard, Installation Wizard Port Configuration (enable/disable,speed/duplex), ONVIF, Port Statistic, System reboot from remote side User Account with authority  STP/RSTP, ERPS v1/v2, Code redundancy 802.1Q VLAN, Port-based VLAN (Port Isolation) 802.1p QoS, Flow Control, Traffic Monitor (Abnormal Traffic Detection),
Performance  Management  Reliability  VLAN	MAC Table Entries: 8K Switch Fabric: 20Gbps  CLI, Telnet, SSH, HTTP, HTTPs, SNMP v1/v2c, SNMP v3, SNMP Trap, Management VLAN (MVLAN), Firmware upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client, Port Mirroring Server (service) control, Port Utilization, Alarm Information, ModbusTCP, Power Down trap Topology Map, Dashboard, Installation Wizard Port Configuration (enable/disable,speed/duplex), ONVIF, Port Statistic, System reboot from remote side User Account with authority  STP/RSTP, ERPS v1/v2, Code redundancy 802.1Q VLAN, Port-based VLAN (Port Isolation) 802.1p QoS, Flow Control, Traffic Monitor (Abnormal Traffic Detection), Storm Control, Port Isolation, Loop Detection Storm alarm threshold per port
Management  Reliability  VLAN  Traffic Control	MAC Table Entries: 8K Switch Fabric: 20Gbps  CLI, Telnet, SSH, HTTP, HTTPs, SNMP v1/v2c, SNMP v3, SNMP Trap, Management VLAN (MVLAN), Firmware upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client, Port Mirroring Server (service) control, Port Utilization, Alarm Information, ModbusTCP, Power Down trap Topology Map, Dashboard, Installation Wizard Port Configuration (enable/disable,speed/duplex), ONVIF, Port Statistic, System reboot from remote side User Account with authority  STP/RSTP, ERPS v1/v2, Code redundancy 802.1Q VLAN, Port-based VLAN (Port Isolation) 802.1p QoS, Flow Control, Traffic Monitor (Abnormal Traffic Detection), Storm Control, Port Isolation, Loop Detection Storm alarm threshold per port ACL (Access control list), Port Security (MAC limit)
Management  Reliability  VLAN	MAC Table Entries: 8K Switch Fabric: 20Gbps  CLI, Telnet, SSH, HTTP, HTTPs, SNMP v1/v2c, SNMP v3, SNMP Trap, Management VLAN (MVLAN), Firmware upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client, Port Mirroring Server (service) control, Port Utilization, Alarm Information, ModbusTCP, Power Down trap Topology Map, Dashboard, Installation Wizard Port Configuration (enable/disable,speed/duplex), ONVIF, Port Statistic, System reboot from remote side User Account with authority  STP/RSTP, ERPS v1/v2, Code redundancy 802.1Q VLAN, Port-based VLAN (Port Isolation) 802.1p QoS, Flow Control, Traffic Monitor (Abnormal Traffic Detection), Storm Control, Port Isolation, Loop Detection Storm alarm threshold per port  ACL (Access control list), Port Security (MAC limit) Port-based 802.1X, BPDU Guard
Management  Reliability  VLAN  Traffic Control	MAC Table Entries: 8K Switch Fabric: 20Gbps  CLI, Telnet, SSH, HTTP, HTTPs, SNMP v1/v2c, SNMP v3, SNMP Trap, Management VLAN (MVLAN), Firmware upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client, Port Mirroring Server (service) control, Port Utilization, Alarm Information, ModbusTCP, Power Down trap Topology Map, Dashboard, Installation Wizard Port Configuration (enable/disable,speed/duplex), ONVIF, Port Statistic, System reboot from remote side User Account with authority  STP/RSTP, ERPS v1/v2, Code redundancy 802.1Q VLAN, Port-based VLAN (Port Isolation) 802.1p QoS, Flow Control, Traffic Monitor (Abnormal Traffic Detection), Storm Control, Port Isolation, Loop Detection Storm alarm threshold per port  ACL (Access control list), Port Security (MAC limit) Port-based 802.1X, BPDU Guard BPDU Filter, ROOT Guard, Trusted Managed Host
Performance  Management  Reliability  VLAN  Traffic Control  Security	MAC Table Entries: 8K Switch Fabric: 20Gbps  CLI, Telnet, SSH, HTTP, HTTPs, SNMP v1/v2c, SNMP v3, SNMP Trap, Management VLAN (MVLAN), Firmware upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client, Port Mirroring Server (service) control, Port Utilization, Alarm Information, ModbusTCP, Power Down trap Topology Map, Dashboard, Installation Wizard Port Configuration (enable/disable,speed/duplex), ONVIF, Port Statistic, System reboot from remote side User Account with authority  STP/RSTP, ERPS v1/v2, Code redundancy 802.1Q VLAN, Port-based VLAN (Port Isolation) 802.1p QoS, Flow Control, Traffic Monitor (Abnormal Traffic Detection), Storm Control, Port Isolation, Loop Detection Storm alarm threshold per port  ACL (Access control list), Port Security (MAC limit) Port-based 802.1X, BPDU Guard BPDU Filter, ROOT Guard, Trusted Managed Host PoE Schedulng, PD Alive Check, PoE Power on/off,
Management  Reliability  VLAN  Traffic Control	MAC Table Entries: 8K Switch Fabric: 20Gbps  CLI, Telnet, SSH, HTTP, HTTPs, SNMP v1/v2c, SNMP v3, SNMP Trap, Management VLAN (MVLAN), Firmware upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client, Port Mirroring Server (service) control, Port Utilization, Alarm Information, ModbusTCP, Power Down trap Topology Map, Dashboard, Installation Wizard Port Configuration (enable/disable,speed/duplex), ONVIF, Port Statistic, System reboot from remote side User Account with authority  STP/RSTP, ERPS v1/v2, Code redundancy 802.1Q VLAN, Port-based VLAN (Port Isolation) 802.1p QoS, Flow Control, Traffic Monitor (Abnormal Traffic Detection), Storm Control, Port Isolation, Loop Detection Storm alarm threshold per port  ACL (Access control list), Port Security (MAC limit) Port-based 802.1X, BPDU Guard BPDU Filter, ROOT Guard, Trusted Managed Host

Primary inputs: 48~57VDC   Redundant inputs: 48~57VDC   Redundant inputs: 48~57VDC   Redundant inputs: 48~57VDC   Redundant inputs: 48~57VDC   Terminal Block   System: 10W   PoE Power Budget: 240W   PoE	Power		
Redundant inputs: 48-57VDC	The second secon		
Connection	Input Voltage		
System: 10W	Connection		
PoE Power Budget: 240W	Power Consumption		
Mechanical and Environment		PoE Power Budget: 240W	
Mounting			
DIN-Rail	Mechanical and Environment		
Operating Temperature         -10°C~60°C (14°F~140°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 (2.21 lb)           Dimension (WxHxD)         50 x 160 x 120 mm (1.97 x 6.36 x 4.72 in)           Certifications           FCC Part 15 Subpart B Class A EN 55032: class A EN 55032: class A EN 61000-6-4           EMI         EN 55011: 2009 class A EN 61000-6-2 EN 61000-4-2 (ESD)           EN 61000-6-2 EN 61000-4-2 (ESD)         EN 61000-4-2 (ESD)           EN 61000-4-3 (RS) EN 61000-4-3 (RS) EN 61000-4-3 (RS) EN 61000-4-8 (PFMF)           Shock         IEC 60068-2-27           Freefall         IEC 60068-2-32           Vibration         IEC 60068-2-32           Vibration         IEC 60068-2-6           Ordering Information         SEN-8428PL 2 x FX/GbE SFP Switch           Optional Accessories         SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C-70°C (-13°F~158°F)           GBM-104         1000BASE-SX 1.25G, Multi-mode SFP, 500 m           GBM-123TS         300BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10 km, 0°C~70°C (32°F~158°F)           1000BASE-LX, Bi-Di SFP TX:1550/RX:1310	Housing	Metal (IP30 Protection)	
Storage Temperature	Mounting	DIN-Rail	
Operating Humidity         5 to 95% RH (non-condensing)           Storage Humidity         5 to 95% RH (non-condensing)           Weight         970 g (2.21 lb)           Dimension (WxHxD)         50 x 160 x 120 mm (1.97 x 6.36 x 4.72 in)           Certifications           FCC Part 15 Subpart B Class A EN 55032: class A EN 55032: class A EN 61000-6-4           EMI           EM 55024 EN 61000-6-4           EN 61000-6-2 EN 61000-4-2 (ESD)           EN 61000-4-2 (ESD)           EN 61000-4-3 (RS)           EN 61000-4-5 (Surge)           EN 61000-4-8 (PFMF)           Shock           IEC 60068-2-27           Freefall         IEC 60068-2-32           Vibration         IEC 60068-2-32           Vibration         IEC 60068-2-6           Ordering Information         Lite Managed 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Switch           Optional Accessories           Power Supply         SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C (-13°F~158°F)           GBM-104         1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10 km, 0°C~70°C (32°F~158°F)           GBM-123TS         1000BASE-LX, Bi-Di SFP TX:1550/RX:1310	Operating Temperature	-10°C~60°C (14°F~140°F)	
Storage Humidity	Storage Temperature	-40°C~85°C (-40°F~185°F)	
Weight         970 g (2.21 lb)           Dimension (WxHxD)         50 x 160 x 120 mm (1.97 x 6.36 x 4.72 in)           Certifications           FCC Part 15 Subpart B Class A EN 55032: class A EN 55032: class A EN 61000-6-4           EMI           EM 55024 EN 61000-6-2 EN 61000-6-2 EN 61000-4-2 (ESD) EN 61000-4-3 (RS) EN 61000-4-3 (RS) EN 61000-4-5 (Surge) EN 61000-4-6 (CS) EN 61000-4-6 (CS) EN 61000-4-8 (PFMF)           Shock         IEC 60068-2-27           Freefall         IEC 60068-2-32           Vibration         IEC 60068-2-6           Ordering Information           SEN-8428PL         Lite Managed 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Switch           Optional Accessories           Power Supply         SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C (-13°F~158°F)           GBM-104         1000BASE-BX 1.25G, Multi-mode SFP, 500 m           GBM-123TS           GBM-123PS           1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10 km, 0°C~70°C (32°F~158°F)           1000BASE-LX, Bi-Di SFP TX:1550/RX:1310	Operating Humidity	5 to 95% RH (non-condensing)	
Dimension (WxHxD)   50 x 160 x 120 mm (1.97 x 6.36 x 4.72 in)	Storage Humidity	5 to 95% RH (non-condensing)	
Certifications	Weight	970 g (2.21 lb)	
FCC Part 15 Subpart B Class A	Dimension (WxHxD)	50 x 160 x 120 mm (1.97 x 6.36 x 4.72 in)	
EMI EN 55032: class A EN 55011: 2009 class A EN 61000-6-4  EN 55024 EN 61000-6-2 EN 61000-4-2 (ESD) EN 61000-4-3 (RS) EN 61000-4-5 (Surge) EN 61000-4-6 (CS) EN 61000-4-8 (PFMF)  Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vibration IEC 60068-2-32 Vibration IEC 60068-2-6  Ordering Information  SEN-8428PL Latte Managed 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Switch  Optional Accessories  Power Supply SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C (-13°F~158°F)  GBM-104 1000BASE-SX 1.25G, Multi-mode SFP, 500 m  1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10 km, 0°C~70°C (32°F~158°F)  GBM-123PS 1000BASE-LX, Bi-Di SFP TX:1550/RX:1310	Certifications		
EMI EN 55011: 2009 class A EN 61000-6-4  EN 55024 EN 61000-6-2 EN 61000-4-2 (ESD) EN 61000-4-3 (RS) EN 61000-4-3 (RS) EN 61000-4-5 (Surge) EN 61000-4-6 (CS) EN 61000-4-8 (PFMF)  Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vibration IEC 60068-2-6  Ordering Information  SEN-8428PL Lite Managed 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Switch  Optional Accessories  Power Supply SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C (-13°F~158°F)  GBM-104 1000BASE-SX 1.25G, Multi-mode SFP, 500 m  1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10 km, 0°C~70°C (32°F~158°F)  GBM-123PS 1000BASE-LX, Bi-Di SFP TX:1550/RX:1310		FCC Part 15 Subpart B Class A	
EMS  EN 61000-6-4  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)  Shock  IEC 60068-2-27  Freefall  IEC 60068-2-32  Vibration  IEC 60068-2-6  Ordering Information  SEN-8428PL  Lite Managed 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Switch  Optional Accessories  Power Supply  SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C (-13°F~158°F)  GBM-104  GBM-123TS  1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10 km, 0°C~70°C (32°F~158°F)  GBM-123PS  1000BASE-LX, Bi-Di SFP TX:1550/RX:1310		EN 55032: class A	
EN 61000-6-4  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)  Shock  IEC 60068-2-27  Freefall  IEC 60068-2-32  Vibration  IEC 60068-2-6  Ordering Information  SEN-8428PL  Lite Managed 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Switch  Optional Accessories  Power Supply  SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C (-13°F~158°F)  GBM-104  GBM-123TS  1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10 km, 0°C~70°C (32°F~158°F)  GBM-123PS  1000BASE-LX, Bi-Di SFP TX:1550/RX:1310	ЕМІ	EN 55011: 2009 class A	
EMS  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)  Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vibration IEC 60068-2-6  Ordering Information  SEN-8428PL Lite Managed 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Switch  Optional Accessories  Power Supply SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C (-13°F~158°F)  GBM-104  GBM-123TS Single Mode, 10 km, 0°C~70°C (32°F~158°F)  GRM-123PS 1000BASE-LX, Bi-Di SFP TX:1550/RX:1310		EN 61000-6-4	
EMS  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)  Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vibration IEC 60068-2-6  Ordering Information  SEN-8428PL Lite Managed 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Switch  Optional Accessories  Power Supply SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C (-13°F~158°F)  GBM-104  GBM-123TS Single Mode, 10 km, 0°C~70°C (32°F~158°F)  GRM-123PS 1000BASE-LX, Bi-Di SFP TX:1550/RX:1310		EN 55024	
EMS  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)  Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vibration IEC 60068-2-6  Ordering Information  SEN-8428PL  2 x FX/GbE SFP Switch  Optional Accessories  Power Supply SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C (-13°F~158°F)  GBM-104  1000BASE-SX 1.25G, Multi-mode SFP, 500 m  1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10 km, 0°C~70°C (32°F~158°F)  GBM-123PS  1000BASE-LX, Bi-Di SFP TX:1550/RX:1310		EN 61000-6-2	
EMS  EN 61000-4-4 (Burst) EN 61000-4-5 (Surge) EN 61000-4-6 (CS) EN 61000-4-8 (PFMF)  Shock  IEC 60068-2-27  Freefall  IEC 60068-2-32  Vibration  IEC 60068-2-6  Ordering Information  SEN-8428PL  Lite Managed 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Switch  Optional Accessories  Power Supply  SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C (-13°F~158°F)  GBM-104  1000BASE-SX 1.25G, Multi-mode SFP, 500 m  1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10 km, 0°C~70°C (32°F~158°F)  GBM-123PS  1000BASE-LX, Bi-Di SFP TX:1550/RX:1310		EN 61000-4-2 (ESD)	
EMS  EN 61000-4-4 (Burst) EN 61000-4-5 (Surge) EN 61000-4-6 (CS) EN 61000-4-8 (PFMF)  Shock  IEC 60068-2-27  Freefall  IEC 60068-2-32  Vibration  IEC 60068-2-6  Ordering Information  SEN-8428PL  Lite Managed 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Switch  Optional Accessories  Power Supply  SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C (-13°F~158°F)  GBM-104  1000BASE-SX 1.25G, Multi-mode SFP, 500 m  1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10 km, 0°C~70°C (32°F~158°F)  GBM-123PS  1000BASE-LX, Bi-Di SFP TX:1550/RX:1310		EN 61000-4-3 (RS)	
EN 61000-4-6 (CS) EN 61000-4-8 (PFMF)  Shock IEC 60068-2-27  Freefall IEC 60068-2-32  Vibration IEC 60068-2-6  Ordering Information  SEN-8428PL Lite Managed 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Switch  Optional Accessories  Power Supply SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C (-13°F~158°F)  GBM-104 1000BASE-SX 1.25G, Multi-mode SFP, 500 m 1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10 km, 0°C~70°C (32°F~158°F)  GBM-123PS 1000BASE-LX, Bi-Di SFP TX:1550/RX:1310	EMS	` '	
EN 61000-4-6 (CS) EN 61000-4-8 (PFMF)  Shock IEC 60068-2-27  Freefall IEC 60068-2-32  Vibration IEC 60068-2-6  Ordering Information  SEN-8428PL Lite Managed 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Switch  Optional Accessories  Power Supply SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C (-13°F~158°F)  GBM-104 1000BASE-SX 1.25G, Multi-mode SFP, 500 m 1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10 km, 0°C~70°C (32°F~158°F)  GBM-123PS 1000BASE-LX, Bi-Di SFP TX:1550/RX:1310		EN 61000-4-5 (Surge)	
EN 61000-4-8 (PFMF)  Shock IEC 60068-2-27  Freefall IEC 60068-2-32  Vibration IEC 60068-2-6  Ordering Information  SEN-8428PL Lite Managed 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Switch  Optional Accessories  Power Supply SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C (-13°F~158°F)  GBM-104 1000BASE-SX 1.25G, Multi-mode SFP, 500 m  1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10 km, 0°C~70°C (32°F~158°F)  GBM-123PS 1000BASE-LX, Bi-Di SFP TX:1550/RX:1310		EN 61000-4-6 (CS)	
Shock         IEC 60068-2-27           Freefall         IEC 60068-2-32           Vibration         IEC 60068-2-6           Ordering Information         Lite Managed 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Switch           Optional Accessories         SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C (-13°F~158°F)           GBM-104         1000BASE-SX 1.25G, Multi-mode SFP, 500 m           GBM-123TS         1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10 km, 0°C~70°C (32°F~158°F)           GRM-123PS         1000BASE-LX, Bi-Di SFP TX:1550/RX:1310		` '	
Vibration         IEC 60068-2-6           Ordering Information         Lite Managed 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Switch           Optional Accessories         SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C (-13°F~158°F)           GBM-104         1000BASE-SX 1.25G, Multi-mode SFP, 500 m           GBM-123TS         1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10 km, 0°C~70°C (32°F~158°F)           GRM-123PS         1000BASE-LX, Bi-Di SFP TX:1550/RX:1310	Shock	` '	
Ordering Information           SEN-8428PL         Lite Managed 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Switch           Optional Accessories         SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C (-13°F~158°F)           GBM-104         1000BASE-SX 1.25G, Multi-mode SFP, 500 m           GBM-123TS         1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10 km, 0°C~70°C (32°F~158°F)           GBM-123PS         1000BASE-LX, Bi-Di SFP TX:1550/RX:1310	Freefall	IEC 60068-2-32	
SEN-8428PL         Lite Managed 8 x 10/100/1000 PoE+ & 2 x FX/GbE SFP Switch           Optional Accessories         SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C (-13°F~158°F)           GBM-104         1000BASE-SX 1.25G, Multi-mode SFP, 500 m           GBM-123TS         1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10 km, 0°C~70°C (32°F~158°F)           GBM-123PS         1000BASE-LX, Bi-Di SFP TX:1550/RX:1310	Vibration	IEC 60068-2-6	
SEN-8428PL         2 x FX/GbE SFP Switch           Optional Accessories           Power Supply         SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C (-13°F~158°F)           GBM-104         1000BASE-SX 1.25G, Multi-mode SFP, 500 m           GBM-123TS         1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10 km, 0°C~70°C (32°F~158°F)           GBM-123PS         1000BASE-LX, Bi-Di SFP TX:1550/RX:1310	Ordering Information		
2 x FX/GbE SFP Switch  Optional Accessories  Power Supply  SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C (-13°F~158°F)  GBM-104  1000BASE-SX 1.25G, Multi-mode SFP, 500 m  1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10 km, 0°C~70°C (32°F~158°F)  1000BASE-LX, Bi-Di SFP TX:1550/RX:1310	CEN 0420DI	Lite Managed 8 x 10/100/1000 PoE+ &	
SDR-480P-48: 480W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C (-13°F~158°F)	SEN-0420PL		
Power Supply Power Supply, -25°C~70°C (-13°F~158°F)  GBM-104 1000BASE-SX 1.25G, Multi-mode SFP, 500 m 1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10 km, 0°C~70°C (32°F~158°F) 1000BASE-LX, Bi-Di SFP TX:1550/RX:1310	Optional Accessories		
GBM-123TS  Power Supply, -25°C~70°C (-13°F~158°F)  1000BASE-SX 1.25G, Multi-mode SFP, 500 m  1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10 km, 0°C~70°C (32°F~158°F)  1000BASE-LX, Bi-Di SFP TX:1550/RX:1310	Power Supply	SDR-480P-48: 480W DIN-Rail 48V DC Industrial	
GBM-123TS  1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10 km, 0°C~70°C (32°F~158°F)  1000BASE-LX, Bi-Di SFP TX:1550/RX:1310		Power Supply, -25°C~70°C (-13°F~158°F)	
GBM-123TS Single Mode, 10 km, 0°C~70°C (32°F~158°F)  1000BASE-LX, Bi-Di SFP TX:1550/RX:1310	GBM-104		
Single Mode, 10 km, 0°C~70°C (32°F~158°F)  1000BASE-LX, Bi-Di SFP TX:1550/RX:1310	GRM-123TS	·	
(2BM-193DS	GDIVI-12313	, ,	
Single Mode, 10 km, 0°C~70°C (32°F~158°F)	GBM-123RS	,	
		Single Mode, 10 km, 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.
- \* Specifications subject to change without notice.

#### **Dimension**

