VOLKTEK

9560-16GT4XS-I

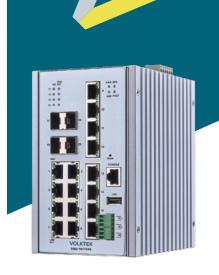
Managed 16 x 10/100/1000 RJ45 & 4 x 1G/10G SFP+ Industrial Switch, Aluminum

Description

9560-16GT4XS-I Industrial Ethernet Switch is a 16-port 10/100/1000 BASE-T RJ45 and 4-slot 1G/10G SFP+. There is one console port in RJ45 type and one USB port for firmware and configuration maintenance. This switch is delivered in a rugged, hardened case and components able to withstand a high degree of vibration and shock and wide operating temperature from -40°C ~70°C.

Not an ordinary industrial switch, the switch is engineered and designed especially for harsh & extreme industrial type applications. With its aluminum case, redundant DC power inputs, and high-performance components, the switch is perfectly suited for your extreme industrial automation environment.

Each port of 9560 series has 2 LEDs to show the link status transmission speed and link/activity status. It also provides a relay output for an event alarm. In the event of a power failure, the built-in LED will activate the alarm to notify administrators. Engineers can simply verify the hardware status by checking the LED, making troubleshooting the device a simple task.





















Features Highlight

SNMP Remote Management

Experience seamless network management with our industrial switch boasting advanced SNMP remote management capabilities! With SNMP support, network administrators gain the power to monitor and manage the switch from anywhere, revolutionizing the way networks are maintained. Enjoy enhanced control and flexibility, effortlessly identifying and troubleshooting issues for optimized network performance. Our SNMP remote management feature allows administrators to remotely monitor switch status, configure settings, and receive real-time alerts, ensuring peak performance around the clock.

IGMP Snooping

The power of IGMP Snooping with our managed switch designed for factory automation. This advanced feature meticulously monitors IGMP packets, intelligently filtering and forwarding traffic exclusively to intended recipients who have expressed interest. By reducing multicast traffic, our switch ensures a streamlined network, minimizing congestion and enhancing overall performance.

With IGMP Snooping in place, you'll enjoy a more efficient network, delivering higher quality of service to your operations. Unlike switches lacking multicast support, our solution optimizes bandwidth usage by intelligently handling streaming and other high-bandwidth IP applications. Say goodbye to indiscriminate broadcast traffic and hello to a network that operates at its peak efficiency with our managed switch featuring IGMP Snooping.

ACL

Unlock precise control over traffic flow in factory automation with the L2/L3/L4 Access Control List (ACL) function. Tailor-made filter rules empower network operators to selectively forward or block packets, allowing for meticulous management of network traffic.

With criteria including MAC and IP addresses, port numbers, and beyond, our ACL function offers granular control, ensuring only authorized traffic traverses your network. By restricting access to unwanted devices and thwarting malicious traffic, you'll fortify your network's security posture while optimizing performance.





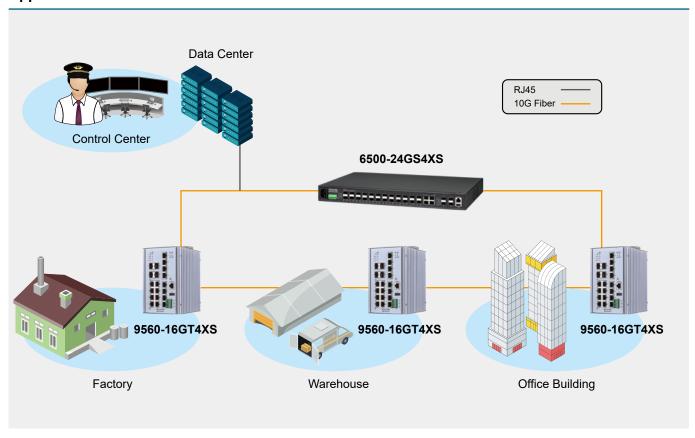
Features Highlight

Multiple 10G Fiber Ring Ports

Multiple 10G Fiber Ring Ports, the pinnacle of network redundancy and fault-tolerance in infrastructure environments. This cutting-edge feature establishes redundant fiber rings that seamlessly switch between one another, ensuring uninterrupted communication and minimizing costly downtime

Experience heightened network availability, reliability, and cost-effectiveness with effortless configuration and deployment. With Multiple Fiber Ring Ports, your network is fortified to manage even the most unexpected disruptions, guaranteeing uninterrupted operations while securely handling massive volumes of data support, network administrators gain the power to monitor and manage the switch from anywhere, revolutionizing the way networks are maintained. Enjoy enhanced control and flexibility, effortlessly identifying and troubleshooting issues for optimized network performance. Our SNMP remote management feature allows administrators to remotely monitor switch status, configure settings, and receive real-time alerts, ensuring peak performance around the clock.

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 802.3ae	10GBase-SR/LR/ER
IEEE 802.3 Nway	Auto-negotiation
IEEE 802.3x	Flow Control
IEEE 802.3ad	Link Aggregation
IEEE 802.3az	EEE, Energy Efficient Ethernet
IEEE 802.1AB	LLDP
IEEE 802.1ad	QinQ
IEEE 802.1Q	VLAN tagging
IEEE 802.1X	Port Authentication
Interface	
Ports	16 x 10/100/1000 RJ45
	4 x 1G/10G SFP+
	1 x RS232 Console Port
	1 x USB Port
DIP Switch	Primary/Redundant Power
LED Panel	PWR, RPS, ALM, POST, 1000, 10G, LNK/ACT
Digital Input	2 x pairs, Dry Contact
Digital Output	Relay Output x1, Alarm Relay x1 (1A@24VDC)
<u> </u>	Relay Output X1, Alami Relay X1 (1A@24VDC)
Features	
<u> </u>	Jumbo Frames Size: 12KBytes
Features	Jumbo Frames Size: 12KBytes MAC Table Entries: 16K
<u> </u>	Jumbo Frames Size: 12KBytes MAC Table Entries: 16K Active VLAN: 4K
Features	Jumbo Frames Size: 12KBytes MAC Table Entries: 16K Active VLAN: 4K Switching Fabric: 112Gbps
Features	Jumbo Frames Size: 12KBytes MAC Table Entries: 16K Active VLAN: 4K Switching Fabric: 112Gbps Forwarding Rate: 83.33Mpps
Features	Jumbo Frames Size: 12KBytes MAC Table Entries: 16K Active VLAN: 4K Switching Fabric: 112Gbps Forwarding Rate: 83.33Mpps CLI, Telnet/SSH, HTTP, SNMP v1/v2c/v3, SNMP
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Features Performance	Jumbo Frames Size: 12KBytes MAC Table Entries: 16K Active VLAN: 4K Switching Fabric: 112Gbps Forwarding Rate: 83.33Mpps CLI, Telnet/SSH, HTTP, SNMP v1/v2c/v3, SNMP Trap, MVLAN, Firmware Upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client/Relay/Option 82, e-mail Alarm, Server Control, Mirroring, DDM, SFP Info, Auto-Provisioning, EEE, RMON Statistics,
Performance Management	Jumbo Frames Size: 12KBytes MAC Table Entries: 16K Active VLAN: 4K Switching Fabric: 112Gbps Forwarding Rate: 83.33Mpps CLI, Telnet/SSH, HTTP, SNMP v1/v2c/v3, SNMP Trap, MVLAN, Firmware Upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client/Relay/Option 82, e-mail Alarm, Server Control, Mirroring, DDM, SFP Info, Auto-Provisioning, EEE, RMON Statistics, ModbusTCP, ERPS, ONVIF
Features Performance	Jumbo Frames Size: 12KBytes MAC Table Entries: 16K Active VLAN: 4K Switching Fabric: 112Gbps Forwarding Rate: 83.33Mpps CLI, Telnet/SSH, HTTP, SNMP v1/v2c/v3, SNMP Trap, MVLAN, Firmware Upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client/Relay/Option 82, e-mail Alarm, Server Control, Mirroring, DDM, SFP Info, Auto-Provisioning, EEE, RMON Statistics, ModbusTCP, ERPS, ONVIF Digital Inputs/Digital Output
Features Performance Management Reliability	Jumbo Frames Size: 12KBytes MAC Table Entries: 16K Active VLAN: 4K Switching Fabric: 112Gbps Forwarding Rate: 83.33Mpps CLI, Telnet/SSH, HTTP, SNMP v1/v2c/v3, SNMP Trap, MVLAN, Firmware Upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client/Relay/Option 82, e-mail Alarm, Server Control, Mirroring, DDM, SFP Info, Auto-Provisioning, EEE, RMON Statistics, ModbusTCP, ERPS, ONVIF Digital Inputs/Digital Output STP/RSTP, ERPS v1/v2, Code redundancy, Dual
Performance Management	Jumbo Frames Size: 12KBytes MAC Table Entries: 16K Active VLAN: 4K Switching Fabric: 112Gbps Forwarding Rate: 83.33Mpps CLI, Telnet/SSH, HTTP, SNMP v1/v2c/v3, SNMP Trap, MVLAN, Firmware Upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client/Relay/Option 82, e-mail Alarm, Server Control, Mirroring, DDM, SFP Info, Auto-Provisioning, EEE, RMON Statistics, ModbusTCP, ERPS, ONVIF Digital Inputs/Digital Output STP/RSTP, ERPS v1/v2, Code redundancy, Dual Homing, LACP, Static Trunk
Performance Management Reliability VLAN	Jumbo Frames Size: 12KBytes MAC Table Entries: 16K Active VLAN: 4K Switching Fabric: 112Gbps Forwarding Rate: 83.33Mpps CLI, Telnet/SSH, HTTP, SNMP v1/v2c/v3, SNMP Trap, MVLAN, Firmware Upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client/Relay/Option 82, e-mail Alarm, Server Control, Mirroring, DDM, SFP Info, Auto-Provisioning, EEE, RMON Statistics, ModbusTCP, ERPS, ONVIF Digital Inputs/Digital Output STP/RSTP, ERPS v1/v2, Code redundancy, Dual Homing, LACP, Static Trunk IEEE 802.1Q, Port-based VLAN, MAC-based VLAN, QinQ IGMP Snooping/Throttling/Filter/Querier/Group,
Features Performance Management Reliability	Jumbo Frames Size: 12KBytes MAC Table Entries: 16K Active VLAN: 4K Switching Fabric: 112Gbps Forwarding Rate: 83.33Mpps CLI, Telnet/SSH, HTTP, SNMP v1/v2c/v3, SNMP Trap, MVLAN, Firmware Upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client/Relay/Option 82, e-mail Alarm, Server Control, Mirroring, DDM, SFP Info, Auto-Provisioning, EEE, RMON Statistics, ModbusTCP, ERPS, ONVIF Digital Inputs/Digital Output STP/RSTP, ERPS v1/v2, Code redundancy, Dual Homing, LACP, Static Trunk IEEE 802.1Q, Port-based VLAN, MAC-based VLAN, QinQ IGMP Snooping/Throttling/Filter/Querier/Group, QoS, Flow Control, Rate Limit, Storm Control,
Performance Management Reliability VLAN	Jumbo Frames Size: 12KBytes MAC Table Entries: 16K Active VLAN: 4K Switching Fabric: 112Gbps Forwarding Rate: 83.33Mpps CLI, Telnet/SSH, HTTP, SNMP v1/v2c/v3, SNMP Trap, MVLAN, Firmware Upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client/Relay/Option 82, e-mail Alarm, Server Control, Mirroring, DDM, SFP Info, Auto-Provisioning, EEE, RMON Statistics, ModbusTCP, ERPS, ONVIF Digital Inputs/Digital Output STP/RSTP, ERPS v1/v2, Code redundancy, Dual Homing, LACP, Static Trunk IEEE 802.1Q, Port-based VLAN, MAC-based VLAN, QinQ IGMP Snooping/Throttling/Filter/Querier/Group, QoS, Flow Control, Rate Limit, Storm Control, Traffic Monitor, Port Isolation, Loop Detection
Performance Management Reliability VLAN Traffic Control	Jumbo Frames Size: 12KBytes MAC Table Entries: 16K Active VLAN: 4K Switching Fabric: 112Gbps Forwarding Rate: 83.33Mpps CLI, Telnet/SSH, HTTP, SNMP v1/v2c/v3, SNMP Trap, MVLAN, Firmware Upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client/Relay/Option 82, e-mail Alarm, Server Control, Mirroring, DDM, SFP Info, Auto-Provisioning, EEE, RMON Statistics, ModbusTCP, ERPS, ONVIF Digital Inputs/Digital Output STP/RSTP, ERPS v1/v2, Code redundancy, Dual Homing, LACP, Static Trunk IEEE 802.1Q, Port-based VLAN, MAC-based VLAN, QinQ IGMP Snooping/Throttling/Filter/Querier/Group, QoS, Flow Control, Rate Limit, Storm Control, Traffic Monitor, Port Isolation, Loop Detection ACL, SSH, HTTPs, TACACS+, Port-based 802.1x,
Performance Management Reliability VLAN	Jumbo Frames Size: 12KBytes MAC Table Entries: 16K Active VLAN: 4K Switching Fabric: 112Gbps Forwarding Rate: 83.33Mpps CLI, Telnet/SSH, HTTP, SNMP v1/v2c/v3, SNMP Trap, MVLAN, Firmware Upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client/Relay/Option 82, e-mail Alarm, Server Control, Mirroring, DDM, SFP Info, Auto-Provisioning, EEE, RMON Statistics, ModbusTCP, ERPS, ONVIF Digital Inputs/Digital Output STP/RSTP, ERPS v1/v2, Code redundancy, Dual Homing, LACP, Static Trunk IEEE 802.1Q, Port-based VLAN, MAC-based VLAN, QinQ IGMP Snooping/Throttling/Filter/Querier/Group, QoS, Flow Control, Rate Limit, Storm Control, Traffic Monitor, Port Isolation, Loop Detection

Power		
	Primary inputs: 12~48VDC	
Input Voltage	Redundant Inputs: 12~48VDC	
Power Consumption	System: 30W	
Mechanical and Environment		
Housing	Aluminum (IP30 Protection)	
Operating Temperature	-40°C~70°C (-40°F~158°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	1,295g	
Dimension (WxHxD)	100 x 160 x 140 mm (3.93 x 6.3 x 5.51 in)	
Certifications		
Electromagnetic Compatibility	FCC Part 15 Subpart B Class A EN 55032 / UKCA Class A EN 55035 / UKCA CISPR 32 Class A EN 55011 / UKCA Class A EN 55011 / UKCA Class A CISPR 11 Class A 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 61000-4-5 (Surge) EN 61000-4-6 (CS) IEC 61000-4-8 (PFMF)	
Freefall	IEC 60068-2-31	
Shock	IEC 60068-2-27	
Vibration	IEC 60068-2-6	
Transportation	NEMA TS2 2-2021	
Safety	UL 61010-1, UL 61010-2-201	
Ordering Information		
9560-16GT4XS-I	Managed 16 x 10/100/1000 RJ45 & 4 x 1G/10G SFP+ Industrial Switch, Aluminum	
Optional Accessories		
Power Supply	SDR-240-48: 240W DIN-Rail 48VDC Industrial Power Supply, -25°C~70°C (-13°F~158°F)	
SFP	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 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 UL is -40°C~70°C (-40°F~158°F).
- * Specifications subject to change without notice.

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Dimension

