VOLKTEK

8075-8GT-M12

Lite Managed 8 x 10/100/1000 M12 IP67 Industrial Switch



Description

Introducing the 8075-8GT-M12 Series: a Lite Managed IP67 Industrial Switch, meticulously crafted for the demanding conditions of heavy industrial environments. This series comes fully equipped with all the essential features required for seamless deployment in sophisticated automation systems.

Constructed with robust components and safeguarded by a durable IP67 casing, the 8075-8GT-M12 Series boasts an impressive operational temperature range from -40°C to 70°C, ensuring exceptional resistance to extreme vibration and shock.

The 8075-8GT-M12 Series is not only engineered for resilience in harsh industrial settings but also comes with an array of management functions. These features empower you to tailor communication parameters to your specific needs and provide straightforward methods to oversee network activity. Furthermore, the switch's design incorporates dual redundant power inputs, fortifying network reliability and significantly enhancing uptime.

Enhance your network's efficiency with integrated functionalities like Auto-negotiation, Rate limitation, and Quality of Service (QoS). These features are designed to streamline your network's performance and secure your operations, delivering a cost-effective and compact solution without compromising on power or capability. Experience the pinnacle of industrial networking with the 8075-8GT-M12 Series—where size meets might.

RoHS CE FC

-40°C 70°C Wide Temperature | Flow Control | Auto Negotiation | SNMP

Storm Control | QoS Quality of Service | IGMP Snooping | IP Code 67

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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.

IGMP Snooping

IGMP Snooping is a feature that allows the switch to "listen in" on IGMP (Internet Group Management Protocol) packets. IGMP snooping can very effectively reduce multicast traffic from streaming and other bandwidth-intensive IP applications. While a switch that does not understand multicast will broadcast multicast traffic to all the ports in a broadcast domain (a LAN), an IGMP snooping switch will only forward multicast traffic to the hosts interested in that traffic.

ACL

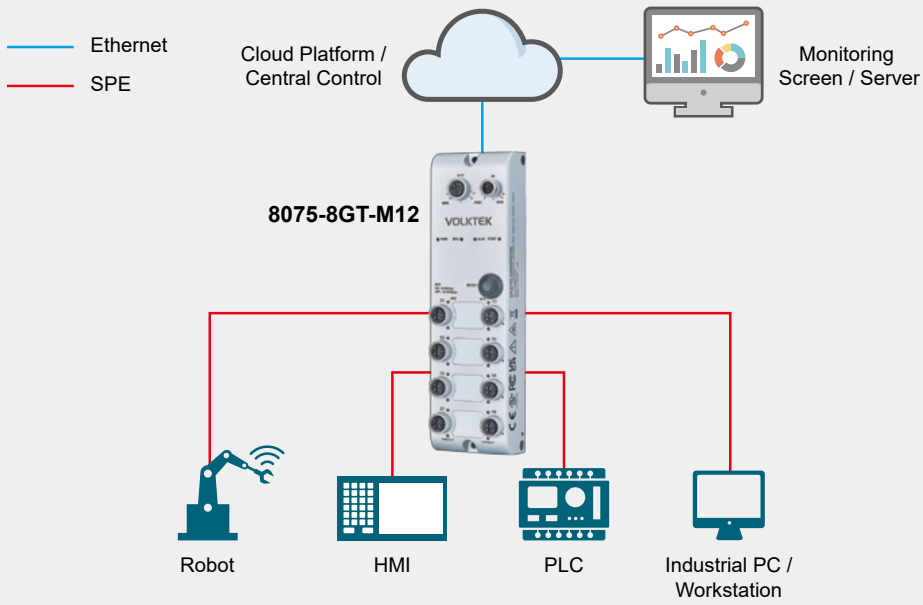
The L2/L3/L4 Access Control List (ACL) function allows you to create filter rules for determining whether or not the Switch will forward specific packets (based on information contained in the headers) for security or control reasons. These criteria cover multiple protocol layers (including MAC and IP) 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).

Topology Map

A network switch topology map is a schematic representation that illustrates how switches are interconnected within a network. It shows the physical or logical arrangement of network devices and how they communicate with each other. This map is crucial for understanding the structure of a network, planning for expansions, troubleshooting issues, and managing the network efficiently.

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Applications



Specifications

Standards	
IEEE 802.3	10BASE-T
IEEE 802.3u	100BASE-TX
IEEE 802.3ab	1000BASE-T
IEEE 802.3	Nway Auto-negotiation
IEEE 802.3x	Flow Control
IEEE 802.1AB	LLDP
IEEE 802.1D	Spanning Tree Protocol
IEEE 802.1w	Rapid Spanning Tree Protocol
IEEE 802.1p	Class of service, priority protocols
IEEE 802.1Q	VLAN tagging
IEEE 802.1X	Network Access Control
Interface	
Ports	8 x 10/100/1000 8-pin X-coded female
LED Panel	System: PWR(G), RPS(G), ALM(R), POST(G)
	Interface: 1000(G), LNK/ACT(G)
Features	
Performance	Jumbo Frames Size: 10KBytes
	MAC Table Entries: 8K
	Packet Buffer: 4.1Mbit
	Switching Fabric: 16Gbps
	Forwarding Rate: 11.9Mpps
Management	Telnet, HTTP/HTTPS, SNMP v1/v2c/v3, SNMP Trap, MVLAN, Firmware Upgradable, Configuration Backup/Restore, Syslog, SNTP, LLDP, DHCP Client, Server Control, Port Mirroring, Modbus TCP, Port Utilization, Alarm Information, , Dashboard, Installation Wizard, Port Management, Port Statistics, Remote Reboot, User Account, MAC Aging Time, Topology Map, ONVIF Discovery
Reliability	STP/RSTP, ERPSv1/v2
VLAN	IEEE 802.1Q, Port-based VLAN
Traffic Control	IGMP Snooping(v1/v2/v3), QoS, Flow Control, Storm Control, Traffic Monitor, Port Isolation, Loop Detection, Storm alarm threshold per port
Security	ACL, SSH, Port-based 802.1x, Port Security, Static MAC, BPDU Guard/Filter, Root Guard

Power	
Redundant input	24~48 VDC (4-Pin with FE L-coded M12 male connector)
Redundant output	24~48 VDC (4-Pin with FE L-coded M12 female connector)
Power Consumption	8W
Certifications	
EMI	FCC Part 15 Subpart B Class A EN 55011 / BS EN 55011 Class A EN 55032 / BS EN 55032 Class A EN 61000-6-4 / BS EN 61000-6-4 ICES-003 Issue 7
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)
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-31
Vibration	IEC 60068-2-6
Safety	UL 61010-1, UL 61010-2-201
Mechanical and Environment	
Housing	Metal (IP67 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	425 g (0.94 lb)
Dimension (WxHxD)	60 x 210 x 41 mm (2.36 x 8.27 x 1.61 in)
Ordering Information	
8075-8GT-M12	Lite Managed 8 x 10/100/1000 M12 IP67 Industrial Switch

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

