



Industrial L2+ Managed 16 Port Ethernet Switch

IE-MG-1604-0003

Product Description

The Industrial L2+ Managed 16 Port Ethernet Switch is designed for robust and efficient networking in industrial environments. It features 16x 10/100/1000Base-T ports and 4x 1000Base-X SFP ports, providing versatile and high-speed connectivity. Ideal for industrial applications requiring advanced network management and flexible connectivity, this switch supports full/half-duplex, auto-negotiation, and auto MDI/MDIX on its 10/100/1000Mbps RJ45 ports. Additionally, it includes a USB-C port for easy and convenient management, making it a perfect choice for demanding industrial network setups.





Product Part Number

Verdelon Part Number	IE-MG-1604-0003
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Ports Interface

RJ45	16x 10/100/1000Base-T RJ45 ports w/ auto negotiation & auto MDI / MDI-X
Optical	4x 100/1000Base-X SFP ports
USB-C	1x USB-C

Ethernet Standards

IEEE 802.3
IEEE 802.3u
IEEE 802.3ab
IEEE 802.3z
IEEE 802.3p
IEEE 802.1d



Software

Management	Web management Easy management w/ built in USB-C port IPv4/IPv6 Management Static Route CLI WEB SNMPv1/v2/v3 EEE LLDP DHCP Server/Client (IPv4/IPv6) Cloud/MQTT
Redundancy	STP support RSTP MSTP ERPSv2 Link Aggregation
Maintenance	Port mirroring, Syslog, Ping
Multicast	IGMP snooping V1/V2/V3 GMRP GVMP 802.1Q
VLAN	IEEE 802.1Q 4K VLAN QINQ Double VLAN



Software

QoS	Flow-based redirection / rate limiting / packet filtering 8 output queues per port port 802.1p/DSCP priority mapping Diff-Serv QoS Priority Mark/Remark Queue Scheduling Algorithm (SP, WRR, SP+WRR)
ACL	Port-based Issuing ACL ACL based on port and VLAN L2 to L4 packet filtering (matching the first 80 bytes message) ACL based on MAC Destination MAC address IP Source Destination IP IP Protocol Type TCP/UDP Port TCP/UDP Port Range
Security	Broadcast Storm Protection HTTPS/SSLv3, AAA & RADIUS, SSH2.0 DHCP Snooping 802.1X security access User hierarchical management ACL access control list DDOS Port-based MAC filtering / binding, MAC black holes IP source protection Port isolation ARP message speed limit 1-way relay alarm output, RMON, TRAP

Technical Specifications

Forward and Filtering Rate	14,880pps (10Mbps) / 148,800pps (100Mbps) / 1,488,000pps (1000Mbps)
Packet Buffer Memory	12M bits
Maximum Packet Length	10K bytes - jumbo frame
Backplane Bandwidth	110Gbps
Address Table	8K MAC addresses
Processing Type	Store and forward

Indicators

Power	Power status
Ethernet	Link/Activity per port
Fiber (F17-F20)	SFP port status

DIP Switch

1	VLAN
2	Ring Management
3	Reserved
4	Reserved



Power

Power Input	12-48VDC
Redundancy	Redundant power w/ 6-pin terminal block
Power Input Overload	Automatic
Reverse Polarity	Included
Self Consumption	8W

Environmental Standards

Rating	IP40
Storage Temperature	-40°C to 85°C
Operating Temperature	-40°C to 80°C
Humidity Tolerance	5% to 95%



Physical Properties

Weight	1400g
Case Material	Aluminum
Dimensions (mm)	160 x 120 x 90
Mounting	Optional DIN-Rail mount included Optional wall mount included

Any questions?

Visit our website at:
www.verdelon.com

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