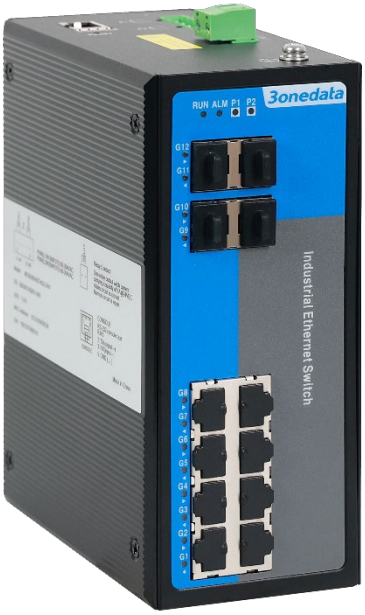
3onedata
Reliable Connections



MES6300 Series

DIN-Rail or Wall Mounting

16-Port Gigabit Layer 3 Managed Industrial Ethernet Switch

- Support 8 Gigabit copper ports and 8 Gigabit SFP slots
- Support MRP ring network, reconfiguration time < 200ms
- Support multiple network protocols and industry standards, such as STP/RSTP/MSTP, ERPS, DHCP, VLAN, QoS, IGMP Snooping, LLDP, ACL and SNMP.
- Support 2 24/48VDC (18~58VDC), dual power redundancy, and anti-reverse connection
- Support 2 110VDC (85~300VDC) or 220VAC (90~264VAC) power supply, support non-polarity
- Support -40~75℃ wide operating temperature range
- Support IP40 protection grade

Industrial Grade RPS PoE IP40

Introduction

MES6300 series products are 16-port Gigabit layer 3 managed industrial Ethernet switches. This series provides Gigabit copper port, Gigabit SFP slot, which can negotiate the port rate and duplex mode with the peer device through self-negotiation. The DC product supports a power supply solution of 18~58VDC, while the AC product offers optional power supply solutions of either 85~300VDC or 92~264VAC, and adopts DIN rail or wall-mounted installation methods, which can meet the needs of different application sites.

Network management system supports various network protocols and industrial standards, such as Static Routing, RIP, VRRP, NAT, STP/RSTP/MSTP, GMP, EPRS, 802.1Q VLAN, QoS, DHCP Server, DHCP Client, IGMP Static Multicast, LLDP, Port Trunking, Port Mirroring, etc. It also possesses complete management functions, including Port Configuration, Port Statistics, Port IP Binding, Access Control, 802.1X Authentication, Network Diagnosis, Rapid Configuration, Online Upgrading and so on; and supports CLI, HTTP, HTTPS, Telnet, SSH and other access methods, Network management system could bring you great user experience through its friendly interface design and easy and convenient operation.

The input power supply is two independent power supply circuits which can ensure the normal operation of the device when one power supply fails. When power supply or port has link failure, ALM indicator will be bright and send out alarm, meanwhile, alarm device connected to the relay will send out alarm for rapid scene troubleshooting. The RESET button of the device supports one-click restart and factory reset. The hardware adopts fanless, low power consumption and wide temperature design, which has passed rigorous industrial standard tests, and suits the industrial scene environment with harsh requirements for EMC. It can be widely used in smart substation, smart grid, energy storage, photovoltaic, wind electricity, non-electric industry SCADA system and other industrial fields.

Features and Benefits

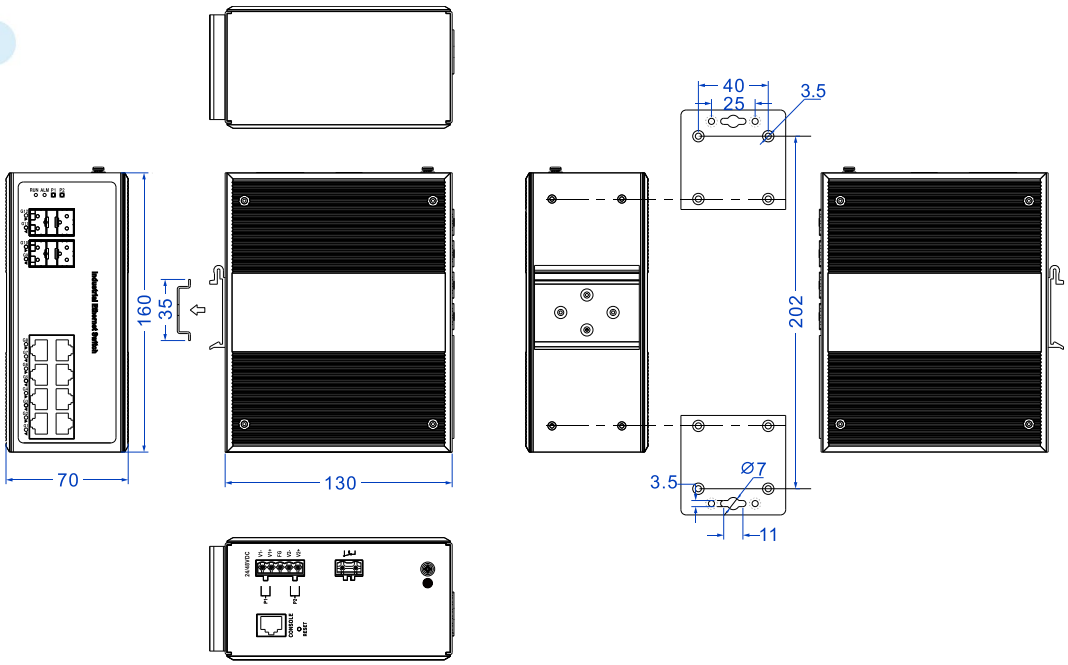
- SNMPv1/v2c/v3 is used for network management of various levels
- RMON can be used for efficient and flexible network monitoring
- QoS supports real-time traffic classification and priority setting
- LLDP can achieve automatic topology discovery, which is convenient for visual management
- DHCP server and DHCP client could be used for allocating IP address of different strategies
- DHCP Snooping can ensure DHCP client gets IP address from legal DHCP server
- DHCP relay function can realize IP address, gateway, DNS configuration cross network segment
- File management is convenient for the device rapid configuration and online upgrading

- Log information and log server can record user operation, system failure, system security and other information locally and remotely
- User privilege classification configuration can set user privilege level
- ACL can enhance the flexibility and security of the network, supporting bidirectional ACL IN and OUT.
- SSH configuration and HTTPS configuration can improve device's management security and guarantee data access security
- Ring, MRP, STP/RSTP/MSTP can achieve network redundancy, preventing network storm
- EPRS function can realize link backup and improve the reliability of network
- Relay alarm is convenient for troubleshooting of construction site
- Storm suppression can restrain broadcast, unknown multicast and unicast
- VLAN is used for simplifying network planning
- Port Trunking and LACP can increase network bandwidth and enhance the reliability of network connection to achieve optimum bandwidth utilization
- IGMP/MLD Snooping/GMRP can be used for filtering multicast traffic to save the network bandwidth
- IGMP/MLD can be used to manage and maintain multicast members
- ARP could be used for MAC address resolution
- VRRP, RIP/RIPng, ISIS, OSPF/OSPFv3 and BGP can realize dynamic routing configuration
- PIM-DM and PIM-SM can be used to create and maintain multicast routing table entries and realize multicast routing forwarding
- NAT maps private IP address to the legal IP address of external network, which can slow the consumption of IP address space
- Loop detection could efficiently eliminate the influence caused by port loopback by detecting the existence of loopback
- IPDT can track IP device status and realize interaction with other applications
- Smart Link link backup, providing reliable and efficient backup and fast switching mechanism
- Network diagnosis and troubleshooting could be conducted via Ping, Traceroute, cable diagnosis, SFP DDMI
- Port mirroring can conduct data analysis and monitoring, which is convenient for online debugging

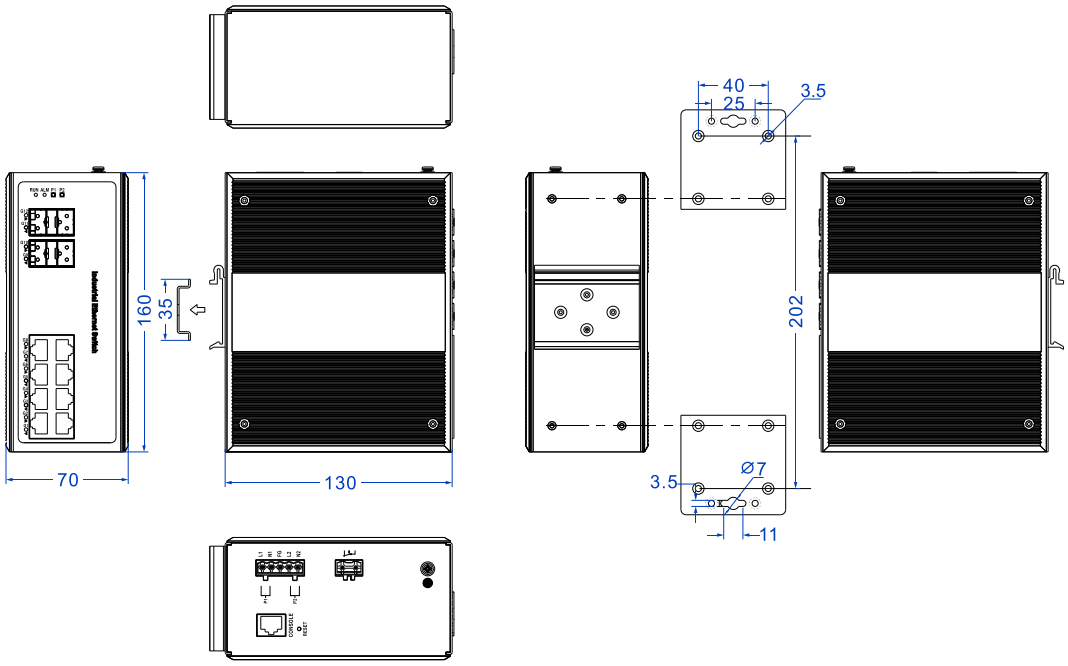
Dimension

Unit: mm

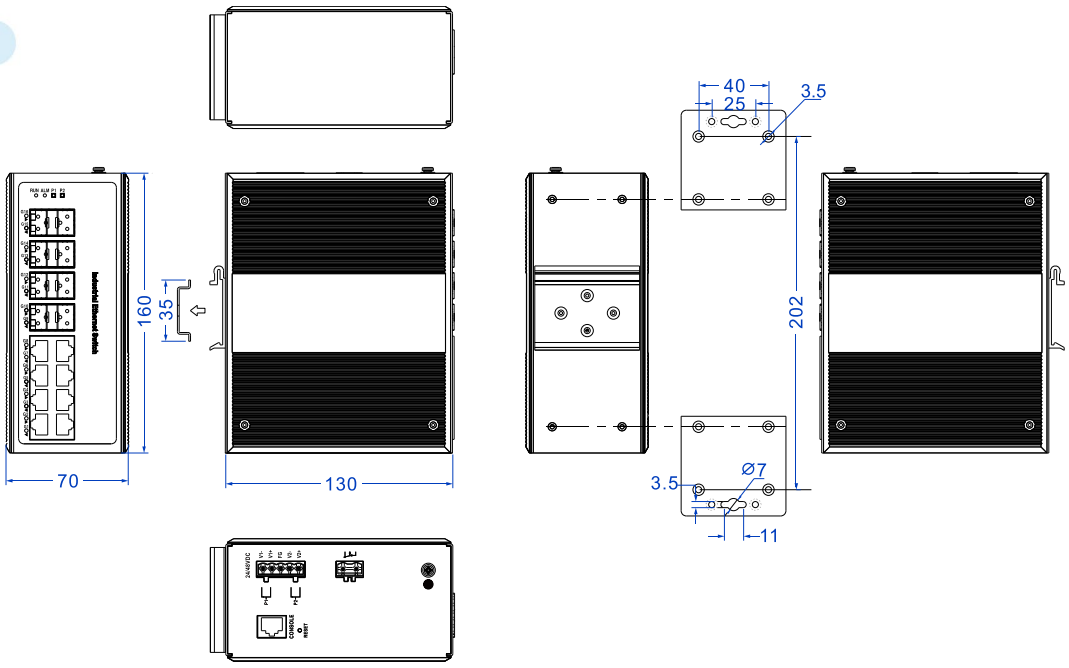
- MES6300-8GT4GS-2LV



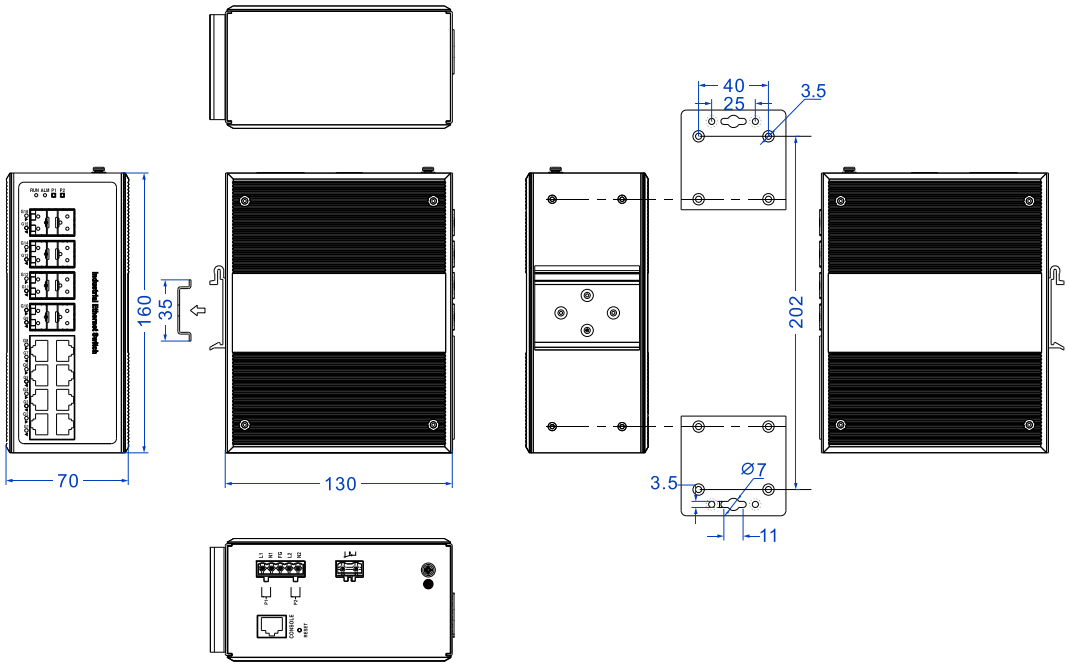
- MES6300-8GT4GS-2HV



- MES6300-8GT8GS-2LV



- MES6300-8GT8GS-2HV



Specification

Standard & Protocol	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.3z for 1000Base-X IEEE 802.3ae for 10GBase-X IEEE 802.3x for Flow Control

	IEEE 802.1D for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1s for Multiple Spanning Tree Protocol ITU-T G.8032 for ERPS IEEE 802.1Q for VLAN IEEE 802.1AB for LLDP IEEE 802.3ad for LACP
Management	SNMP v1/v2c/v3 centralized managed equipment, RMON, Port Mirroring, LLDP, QoS, DHCP Server, DHCP Relay, port speed limit, port isolation, port statistics, file management, online upgrade, log information, Syslog server
Security	User privilege classification, ACL, SSH/HTTPS protocol authorization, link flapping protection, port loopback detection, access control, SNMP, RMON, IPDT, IPv6DT, Smart-Link, NAT, port alarm, temperature alarm, power alarm, network load alarm
Switch Function	802.1Q VLAN, MAC, static aggregation, LACP, ARP, storm suppression
Unicast / Multicast	IGMP-Snooping, MLD-Snooping, GMRP, IGMP, MLD, PIM-SM, PIM-DM, IPv6-PIM-SM, IPv6-PIM-DM
Redundancy Technology	Ring, MRP, STP/RSTP/MSTP, ERPS
Routing Technique	RIP, RIPng, OSPF, OSPFv3, ISIS, VRRP, IPv6 VRRP, BGP
Troubleshooting	Ping, Traceroute, Network Cable Diagnosis, SFP Digital Diagnosis
Time Management	NTP Client, Time Zone Configuration
Interface	Gigabit copper port: 10/100/1000Base-T(X) self-adaption or forced mode, RJ45, Automatic Flow Control, Full/Half Duplex Mode self-adaption, MDI/MDI-X Autotuning Gigabit SFP slot: 100/1000 Base-X SFP slot, auto-negotiation or forced mode Console port: CLI command line management port (RS-232), RJ45 Relay: Support 1 relay alarm output, adopt 2-pin 7.62mm pitch terminal blocks, the current carrying capacity is 1A@30VDC or 2A@250VAC
Indicator	Power indicator, running indicator, alarm indicator, interface indicator

Switch Property	Transmission mode: store and forward MAC address: 16K Cache: 12Mbit Backplane bandwidth: 128Gbps Switch delay: <10μs
Power Supply	DC products: ● Power supply range: 24/48VDC (18~58VDC), dual power supply redundancy ● Connection mode: 5-pin 5.08mm pitch terminal blocks ● Connection protection: support anti-reverse connection AC products: ● Power supply range: 110VDC (85~300VDC) or 220VAC (90~264VAC), dual power supply ● Connection mode: 5-pin 5.08mm pitch terminal blocks ● Connection protection: support non-polarity
Power Consumption	MES6300-8GT4GS-2LV: ● No-load at normal temperature 25℃: 6.36W@48VDC ● Full-load at normal temperature 25℃: 11.57W@48VDC ● No-load at high temperature 75℃: 8.18W@48VDC ● Full-load at high temperature 75℃: 13.60W@48VDC MES6300-8GT4GS-2HV: ● No-load at normal temperature 25℃: 5.10W@220VAC ● Full-load at normal temperature 25℃: 10.81W@220VAC ● No-load at high temperature 75℃: 6.82W@220VAC ● Full-load at high temperature 75℃: 12.24W@220VAC MES6300-8GT8GS-2LV: ● No-load at normal temperature 25℃: 8.64W@48VDC ● Full-load at normal temperature 25℃: 16.80W@48VDC ● No-load at high temperature 75℃: 9.62W@48VDC ● Full-load at high temperature 75℃: 18.24W@48VDC MES6300-8GT8GS-2HV: ● No-load at normal temperature 25℃: 6.88W@220VAC ● Full-load at normal temperature 25℃: 15.75W@220VAC ● No-load at high temperature 75℃: 8.34W@220VAC ● Full-load at high temperature 75℃: 16.74W@220VAC
Working Environment	Operating temperature: -40~75℃ Storage temperature: -40~85℃

	Relative humidity: 5%~95% (no condensation)
Mechanical Structure	Housing: IP40 protection, metal Installation: DIN-Rail or wall mounting Dimension (W x H x D): 70mm×160mm×130mm Weight: ● MES6300-8GT4GS-2LV: 0.980kg ● MES6300-8GT4GS-2HV: 1.115kg ● MES6300-8GT8GS-2LV: 0.989kg ● MES6300-8GT8GS-2HV: 1.120kg
Industrial Standard	IEC 61000-4-2 (ESD, electronic static discharge), Level 4 ● Air discharge: ± 15kV ● Contact discharge: ±8kV IEC 61000-4-4 (EFT, electrical fast transient pulses), Level 4 ● Power supply: ±4kV ● Copper port: ±2kV IEC 61000-4-5 (Surge), Level 4 ● Power supply: differential mode±2kV, common mode±4kV ● Copper port: differential mode±2kV, common mode±4kV Shock: IEC 60068-2-27 Free fall: IEC 60068-2-31 Vibration: IEC 60068-2-6
Authentication	CE, FCC, RoHS
Warranty	5 years

Ordering Information

Model	Gigabit Copper Port	Gigabit SFP	Power Supply
MES6300-8GT4GS-2LV	8	4	24/48VDC (18~58VDC) dual power supply redundancy
MES6300-8GT4GS-2HV	8	4	110VDC (85~300VDC) or 220VAC (90~264VAC) dual power supply
MES6300-8GT8GS-2LV	8	8	24/48VDC (18~58VDC) dual power supply redundancy
MES6300-8GT8GS-2HV	8	8	110VDC (85~300VDC) or 220VAC (90~264VAC) dual power supply

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◄ Please scan our QR code for more details

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