



MES5300-24GT4GS Series

19-Inch 1U Rack Mounting

28-Port Full Gigabit Layer 2 Managed Industrial Ethernet Switch

- Support 24 Gigabit copper ports and 4 Gigabit SFP slots
- Support MRP ring network, reconfiguration time < 200ms
- Support multiple network protocols and industrial standards, such as ARP, STP/RSTP/MSTP, ERPS, VLAN, LACP, IGMP Snooping, LLDP, SNMP, etc., support Modbus TCP monitoring instruction of electricity SCADA system
- DC product supports 2 24/48VDC (18-72VDC), dual power supply redundancy, support non-polarity
- AC product supports 2 110/ 220VAC/DC(85-264VAC/77-300VDC), dual power supply redundancy
- Support -40~85°C wide temperature operation, support level 4 electromagnetic compatibility protection, and conform to IEC 61850-3 and IEEE 1613 (substation) standards

















RPS 质量第一・服务第一・信誉第一

Introduction

MES5300 series products are 28-port 100M/Gigabit layer 2 managed industrial Ethernet switches. This series provides Gigabit copper port and Gigabit SFP slot, and adopts standard rack installation method, which is specially designed for extremely severe electromagnetic interference environment to meet the anti-interference requirements of power monitoring industry.

Network management system supports a variety of network protocols and industry standards, such as ARP, IPv4, Ring, MRP, VLAN, STP/RSTP/MSTP, ERPS, LLDP, IGMP Snooping, Modbus TCP, QoS, port trunking, port mirroring, etc. It has perfect management functions, supporting port configuration, port statistics, ACL, 802.1X authentication, network diagnosis, rapid configuration, online upgrade, etc. CLI, WEB, Telnet, SNMP, SSH and other access methods can be supported. 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. The design of DIP switch could implement device factory setting recovery and restart. 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 hardware adopts fanless, low power consumption and wide temperature and voltage 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

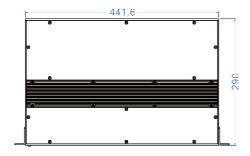
- SNMPv1/v2c/v3 is used for network management of various levels
- RMON can be used for efficient and flexible network monitoring
- Port mirroring can conduct data analysis and monitoring, which is convenient for online debugging
- QoS supports real-time traffic classification and priority setting
- LLDP can achieve automatic topology discovery, which is convenient for visual management
- File management is convenient for rapid configuration and online upgrading of the device
- Log management records Console log, RAM log and Flash log
- Bandwidth management can reasonably distribute network bandwidth, preventing unpredictable network status

- Port statistics can be used for the port real time traffic statistics
- User password can conduct user hierarchical management to improve the device management security
- ACL can enhance network flexibility and security
- Relay alarm is convenient for troubleshooting of construction site
- Storm suppression can restrain broadcast, unknown multicast and unicast
- TELNET configuration and SSH configuration guarantee secure access to data
- Port Trunking can increase network bandwidth and enhance the reliability of network connection to achieve optimum bandwidth utilization
- IGMP Snooping and static multicast can be used to filter multicast data to save network bandwidth
- STP/RSTP/MSTP/Ring/MRP could implement network redundancy and prevent network storm
- ARP could be used for MAC address resolution
- With high reliability and stability, ERPS could avoid broadcast storm caused by data loopback
- Network diagnosis and troubleshooting could be conducted via Ping, Traceroute,
 Cable Diagnosis, SFP Digital Diagnosis

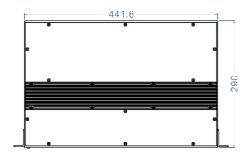
Dimension

Unit: mm

MES5300-24GT4GS-2LV



MES5300-24GT4GS-2HV



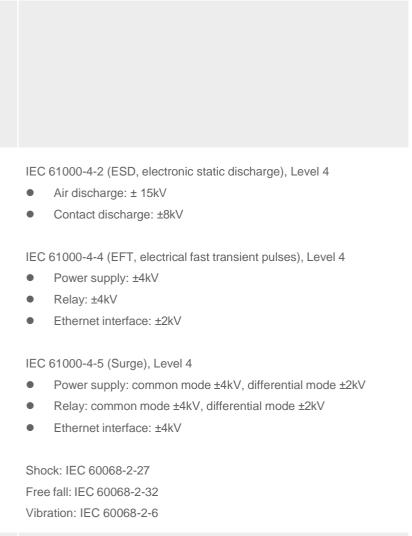
Specification

Standard & Protocol	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-FX IEEE 802.3z for 1000Base-X IEEE 802.3ab for 1000Base-T 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 IEEE 802.1Q for VLAN IEEE802.1p for CoS IEEE 802.1X for 802.1X Authentication IEEE 802.1AB for LLDP ITU-T G.8032 for ERPS		
Management	SNMP v1/v2c/v3, RMON, LLDP, QoS, port settings, dynamic/static MAC address, MAC/IPv4, log report		
Security	Classification of User Permissions, Port and Power Alarm, MAC Security, Port Security, AAA, 802.1X Authentication, RADIUS, TACACS+, MAC-Based Authentication, Storm Control		
Switch Function	802.1Q VLAN, link aggregation, flow control		
Unicast / Multicast	Multicast filtering, IGMP Snooping		

Troubleshooting	Log record, port mirroring, Ping, Traceroute, network cable diagnosis, SFP DDM			
Time Management	NTP			
Interface	Gigabit copper port: 10/100/1000Base-T(X) self-adaption,RJ45,			
Indicator	Running Indicator, Alarm Indicator, Power Supply Indicator, Interface Indicator			
Switch Property	 Transmission mode: store and forward MAC address: 8K Cache: 4.1Mbit Backplane bandwidth: 56Gbps Switch time delay: <10µs 			
Power Supply	 Adopt 5-pin 5.08mm pitch terminal blocks DC product 2 24~48VDC (18-72VDC), dual power supply redundancy, support non-polarity AC product 2 110/220VAC/DC (85-264VAC/77-300VDC), dual power supply redundancy 			
Power Consumption	Available Models No-load Full-load MES5300-24GT4GS-2LV 7.3W@48VDC 22W@48VDC MES5300-24GT4GS-2HV 8.5W@220VAC 22.6W@220VAC			
Working Environment	Operating temperature: -40~85°C Storage temperature:-40~85°C Relative humidity: 5%~95% (no condensation)			

Housing: IP40 protection, metal

Physical Characteristic



Authentication

Industrial Standard

CE, FCC, RoHS, IEC 61850-3 (during authentication), IEEE 1613

(during authentication)

Warranty

5 years



Model	Gigabit Copper Port	Gigabit SFP Slot	Power Supply
MES5300-24GT4GS-2LV	24	4	2 24/48VDC
			(18-72VDC)
			dual power supply
			redundancy and
			non-polarity
MES5300-24GT4GS-2HV	24	4	2 110/220VAC/DC
			(85-264VAC/77-300V
			DC)
			dual power supply
			redundancy