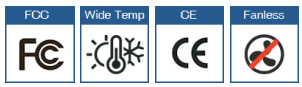
HES16MC/26MC Series

16 and 26-Port Rackmount Managed Ethernet Switches

Features

- RingOn (recovery time < 15ms), RSTP for network redundancy
- Port Mirror and Port Trunk with LACP
- QoS (IEEE 802.1p/1Q) and TOS/DiffServ to increase determinism
- -40 to +75°C Operating Temperature Range (W models)



Introduction

The HES16MC/26MC are standalone 16 and 26-port Rackmount managed Ethernet switches. With their advanced RingOn technology (recovery time < 15 ms) and RSTP/STP, the HES16MC/26MC switches increase the reliability and availability of your industrial Ethernet network. Models with an wide operating temperature range from -40 to +75°C are also available, and the switches support several reliable and intelligent functions, including SNMP Inform, QoS, IGMP snooping, VLAN, IEEE 802.1X, HTTPS, SNMPv3, and SSH, making the HES16MC/26MC switches suitable for any harsh industrial environment.

Specifications

Technology	
Standard	IEEE802.3, 802.3u, 802.3x, 802.1Q, 802.1p
Processing Type	Store and forward
Broadcast Storm	Automatic Broadcast Storm Control
Management	by Web Browser
RingOn	Recovery Time within 15ms
Flow Control	Full Duplex Flow Control, Half Duplex Back Pressure Control
Protocols	SNMP V1/V2c/V3, RingOn/RingOpen,HTTP/HTTPS, LLDP, DHCP Client, IGMP Snooping/GMRP, Telent, Syslog
Switch Properties	
MAC Table Size	8K
Priority Queues	4
Max. Number VLANs	64
VLAN ID Range	VID 1 to 4094
IGMP Groups	256
Interface	
RJ45 Port	10/100BaseT(X) auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
Fiber Ports	100BaseFX ports (SC/ST connector)
LED Indicators	Power, Port Status

Console port	DB9 male	
Output Warning	Relay, Standard 2 Pin	
Power Requirements		
Input Voltage	HES16MC 120~370VDC @ 20W MAX 85~265VAC @ 20VA MAX	
	HES26MC 120~370VDC @ 30W MAX 85~265VAC @ 30VA MAX	
Input Connection	Barrier type terminal blocks	
Physical Characteristics		
Case	Slim Metal Case, IP30 Design	
Dimensions	443×44×260mm	
Installation	DIN Rail or Panel Mounting	
Optical Fiber		
Mode	Multi-mode	Single Mode
Transmission Distance	2km	20km
Centre Wavelength	1310nm	1310nm
Cable Size	62.5/125um	9/125um
TX Power(dBm)	-20~-10dBm	-15~-8dBm
RX Power(dBm)	< -32dBm	< -32dBm
Transmission Rate	100Mbps	100Mbps
Environment Limits		
Operating Temp	Standard Models: -10 to 60°C Wide Temp. Models: -40 to 75°C	
Storage Temp	-40 to 85°C	
Ambient Relative Humidity	5 to 95%(Non-condensing)	
Standards and Certifications		
EMI	FCC Part15, CISPR(EN55022) Class A	
EMS	EN61000-4-2(ESD) Level 3, EN61000-4-3(RS) Level 3, EN61000-4-4(EFT) Level 3, EN61000-4-5(Surge) Level 3, EN61000-4-6(CS) Level 3, EN61000-6-2	
Shock	IEC 60068-2-27	
Freefall	IEC 60068-2-32	
Vibration	IEC 60068-2-6	
Warranty		
Warranty Period	3 years	

Ordering Information

HES16MC-VH	Rackmount Managed, 16 x 100Mbps Copper Port, Industrial Temperature -10°C to +60°C, Power Input 120~370VDC or 85~264VAC
HES16MC-VHW	Rackmount Managed, 16 x 100Mbps Copper Port, Industrial Wide Temperature -40°C to +75°C, Power Input 120~370VDC or 85~264VAC
HES16MC-2SC-VH	Rackmount Managed, 14 x 100Mbps Copper Port, 2 x 100Mbps Multi-Mode Fiber Port with SC connectors, 2KM, Industrial Temperature -10°C to +60°C, Power Input 120~370VDC or 85~264VAC
HES16MC-2SC-VHW	Rackmount Managed, 14 x 100Mbps Copper Port, 2 x 100Mbps Multi-Mode Fiber Port with SC connectors, 2KM, Industrial Wide Temperature -40°C to +75°C, Power Input 120~370VDC or 85~264VAC
HES16MC-2SSC-VH	Rackmount Managed, 14 x 100Mbps Copper Port, 2 x 100Mbps Single-Mode Fiber Port with SC connectors, 20KM, Industrial Temperature -10°C to +60°C, Power Input 120~370VDC or 85~264VAC
HES16MC-2SSC-VHW	Rackmount Managed, 14 x 100Mbps Copper Port, 2 x 100Mbps Single-Mode Fiber Port with SC connectors, 20KM, Industrial Wide Temperature -40°C to +75°C, Power Input 120~370VDC or 85~264VAC
HES16MC-4SC-VH	Rackmount Managed, 12 x 100Mbps Copper Port, 4 x 100Mbps Multi-Mode Fiber Port with SC connectors, 2KM, Industrial Temperature -10°C to +60°C, Power Input 120~370VDC or 85~264VAC
HES16MC-4SC-VHW	Rackmount Managed, 12 x 100Mbps Copper Port, 4 x 100Mbps Multi-Mode Fiber Port with SC connectors, 2KM, Industrial Wide Temperature -40°C to +75°C, Power Input 120~370VDC or 85~264VAC
HES16MC-4SSC-VH	Rackmount Managed, 12 x 100Mbps Copper Port, 4 x 100Mbps Single-Mode Fiber Port with SC connectors, 20KM, Industrial Temperature -10°C to +60°C, Power Input 120~370VDC or 85~264VAC
HES16MC-4SSC-VHW	Rackmount Managed, 12 x 100Mbps Copper Port, 4 x 100Mbps Single-Mode Fiber Port with SC connectors, 20KM, Industrial Wide Temperature -40°C to +75°C, Power Input 120~370VDC or 85~264VAC

Note: All of the Above Products SC Connector can be replaced by ST Connector

HES26MC-VH	Rackmount Managed, 26 x 100Mbps Copper Port, Industrial Temperature -10°C to +60°C, Power Input 120~370VDC or 85~264VAC
HES26MC-VHW	Rackmount Managed, 26 x 100Mbps Copper Port, Industrial Wide Temperature -40°C to +75°C, Power Input 120~370VDC or 85~264VAC
HES26MC-2SC-VH	Rackmount Managed, 24 x 100Mbps Copper Port, 2 x 100Mbps Multi-Mode Fiber Port with SC connectors, 2KM, Industrial Temperature -10°C to +60°C, Power Input 120~370VDC or 85~264VAC
HES26MC-2SC-VHW	Rackmount Managed, 24 x 100Mbps Copper Port, 2 x 100Mbps Multi-Mode Fiber Port with SC connectors, 2KM, Industrial Wide Temperature -40°C to +75°C, Power Input 120~370VDC or 85~264VAC
HES26MC-2SSC-VH	Rackmount Managed, 24 x 100Mbps Copper Port, 2 x 100Mbps Single-Mode Fiber Port with SC connectors, 20KM, Industrial Temperature -10°C to +60°C, Power Input 120~370VDC or 85~264VAC
HES26MC-2SSC-VHW	Rackmount Managed, 24 x 100Mbps Copper Port, 2 x 100Mbps Single-Mode Fiber Port with SC connectors, 20KM, Industrial Wide Temperature -40°C to +75°C, Power Input 120~370VDC or 85~264VAC

HES26MC-4SC-VH	Rackmount Managed, 22 x 100Mbps Copper Port, 4 x 100Mbps Multi-Mode Fiber Port with SC connectors, 2KM, Industrial Temperature -10°C to +60°C, Power Input 120~370VDC or 85~264VAC
HES26MC-4SC-VHW	Rackmount Managed, 22 x 100Mbps Copper Port, 4 x 100Mbps Multi-Mode Fiber Port with SC connectors, 2KM, Industrial Wide Temperature -40°C to +75°C, Power Input 120~370VDC or 85~264VAC
HES26MC-4SSC-VH	Rackmount Managed, 22 x 100Mbps Copper Port, 4 x 100Mbps Single-Mode Fiber Port with SC connectors, 20KM, Industrial Temperature -10°C to +60°C, Power Input 120~370VDC or 85~264VAC
HES26MC-4SSC-VHW	Rackmount Managed, 22 x 100Mbps Copper Port, 4 x 100Mbps Single-Mode Fiber Port with SC connectors, 20KM, Industrial Wide Temperature -40°C to +75°C, Power Input 120~370VDC or 85~264VAC
HES26MC-8SC-VH	Rackmount Managed, 18 x 100Mbps Copper Port, 8 x 100Mbps Multi-Mode Fiber Port with SC connectors, 2KM, Industrial Temperature -10°C to +60°C, Power Input 120~370VDC or 85~264VAC
HES26MC-8SC-VHW	Rackmount Managed, 18 x 100Mbps Copper Port, 8 x 100Mbps Multi-Mode Fiber Port with SC connectors, 2KM, Industrial Wide Temperature -40°C to +75°C, Power Input 120~370VDC or 85~264VAC
HES26MC-8SSC-VH	Rackmount Managed, 18 x 100Mbps Copper Port, 8 x 100Mbps Single-Mode Fiber Port with SC connectors, 20KM, Industrial Temperature -10°C to +60°C, Power Input 120~370VDC or 85~264VAC
HES26MC-8SSC-VHW	Rackmount Managed, 18 x 100Mbps Copper Port, 8 x 100Mbps Single-Mode Fiber Port with SC connectors, 20KM, Industrial Wide Temperature -40°C to +75°C, Power Input 120~370VDC or 85~264VAC
HES26MC-10SC-VH	Rackmount Managed, 16 x 100Mbps Copper Port, 10 x 100Mbps Multi-Mode Fiber Port with SC connectors, 2KM, Industrial Temperature -10°C to +60°C, Power Input 120~370VDC or 85~264VAC
HES26MC-10SC-VHW	Rackmount Managed, 16 x 100Mbps Copper Port, 10 x 100Mbps Multi-Mode Fiber Port with SC connectors, 2KM, Industrial Wide Temperature -40°C to +75°C, Power Input 120~370VDC or 85~264VAC
HES26MC-10SSC-VH	Rackmount Unmanaged, 16 x 100Mbps Copper Port, 10 x 100Mbps Single-Mode Fiber Port with SC connectors, 20KM, Industrial Temperature -10°C to +60°C, Power Input 120~370VDC or 85~264VAC
HES26MC-10SSC-VHW	Rackmount Unmanaged, 16 x 100Mbps Copper Port, 10 x 100Mbps Single-Mode Fiber Port with SC connectors, 20KM, Industrial Wide Temperature -40°C to +75°C, Power Input 120~370VDC or 85~264VAC

Note: All of the Above Products SC Connector can be replaced by ST Connector