

# Product Information

## HES5M/8M Series

### 5 and 8-port Din-rail Managed Ethernet Switches



### Features

- ❖ RingOn (recovery time < 15ms), RSTP for Network Redundancy
- ❖ QoS (IEEE 802.1p/1Q) and TOS/DiffServ to increase determinism
- ❖ IGMP snooping and GMRP for filtering multicast traffic
- ❖ SNMPv1/v2c/v3 for network management of different levels
- ❖ Bandwidth management to prevent unpredictable network status
- ❖ IP30 DIN Rail or Panel Mounting



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## Introduction

The HES5M/8M are 5-port and 8-port managed Ethernet switches. With their advanced RingOn technology (recovery time < 15 ms) and RSTP, the HES5M/8M switches increase the reliability and availability of your industrial Ethernet network. Models with an wide operating temperature range of -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 HES5M/8M 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, Telnet, 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 :	HES5M: 12~36VDC @ 9W MAX; 10~24VAC @ 9VA MAX HES8M: 12~36VDC @ 12W MAX 10~24VAC @ 12VA MAX
Input Connection :	Standard four terminal power input
Physical Characteristics	
Case :	Slim Metal Case, IP30 Design
Dimensions :	49.5×138.8×114.5mm
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 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	
EMS :		
Shock :	IEC 60068-2-27	
Freefall :	IEC 60068-2-32	
Vibration :	IEC 60068-2-6	
Warranty		
Warranty Period :	3 years	

## Ordering Information

### HES5M Series

HES5M-VL	Din-rail Managed, 5 x 100Mbps Copper Port, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES5M-VLW	Din-rail Managed, 5 x 100Mbps Copper Port, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HES5M-SC-VL	Din-rail Managed, 4 x 100Mbps Copper Port, 1 x 100Mbps Multi-Mode Fiber Port with SC Connector, 2KM, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES5M-SC-VLW	Din-rail Managed, 4 x 100Mbps Copper Port, 1 x 100Mbps Multi-Mode Fiber Port with SC Connector, 2KM, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HES5M-SSC-VL	Din-rail Managed, 4 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode Fiber Port with SC Connector, 20KM, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES5M-SSC-VLW	Din-rail Managed, 4 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode Fiber Port with SC Connector, 20KM, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HES5M-2SC-VL	Din-rail Managed, 3 x 100Mbps Copper Port, 2 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2KM, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES5M-2SC-VLW	Din-rail Managed, 3 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 12~36VDC or 10~24VAC
HES5M-2SSC-VL	Din-rail Managed, 3 x 100Mbps Copper Port, 2 x 100Mbps Single-Mode Fiber Port with SC Connectors, 20KM, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES5M-2SSC-VLW	Din-rail Managed, 3 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 12~36VDC or 10~24VAC

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

### HES8M Series

HES8M-VL	Din-rail Managed, 8 x 100Mbps Copper Port, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES8M-VLW	Din-rail Managed, 8 x 100Mbps Copper Port, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HES8M-SC-VL	Din-rail Managed, 7 x 100Mbps Copper Port, 1 x 100Mbps Multi-Mode Fiber Port with SC Connector, 2KM, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES8M-SC-VLW	Din-rail Managed, 7 x 100Mbps Copper Port, 1 x 100Mbps Multi-Mode Fiber Port with SC Connector, 2KM, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HES8M-SSC-VL	Din-rail Managed, 7 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode Fiber Port with SC Connector, 20KM, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES8M-SSC-VLW	Din-rail Managed, 7 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode Fiber Port with SC Connector, 20KM, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HES8M-2SC-VL	Din-rail Managed, 6 x 100Mbps Copper Port, 2 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2KM, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES8M-2SC-VLW	Din-rail Managed, 6 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 12~36VDC or 10~24VAC
HES8M-2SSC-VL	Din-rail Managed, 6 x 100Mbps Copper Port, 2 x 100Mbps Single-Mode Fiber Port with SC Connectors, 20KM, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES8M-2SSC-VLW	Din-rail Managed, 6 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 12~36VDC or 10~24VAC
HES8M-4SC-VL	Din-rail Managed, 4 x 100Mbps Copper Port, 4 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2KM, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES8M-4SC-VLW	Din-rail Managed, 4 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 12~36VDC or 10~24VAC
HES8M-4SSC-VL	Din-rail Managed, 4 x 100Mbps Copper Port, 4 x 100Mbps Single-Mode Fiber Port with SC Connectors, 20KM, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES8M-4SSC-VLW	Din-rail Managed, 4 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 12~36VDC or 10~24VAC

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