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Product Information

HES28M-4G Series

24+4G-Port Din-rail Gigabit Managed Ethernet Switches



Features

- ❖ Up to 4 Gigabit Combo Ports
- ❖ RingOn (recovery time < 15ms), RSTP for Network Redundancy
- ❖ 12~36VDC or 10~24VAC Power Inputs
- ❖ Automatic E-mail Notification for system events
- ❖ Port Mirror and Port Trunk with LACP
- ❖ -40 to +75°C Operating Temperature Range (W models)

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Introduction

The HES28M-4G series Industrial Gigabit Managed Ethernet Switches provide powerful functionality in a small platform. Designed for industrial applications, these switches have all the standard features of other switches, such as IGMP Snooping, Port Based VLAN, 802.1Q Tag VLAN, RJ-45 automatic MDI/MDIX, auto negotiation, store-and-forward switching, STP, RSTP, Web Based Management, Ingress Packet Filtering, and Egress Rate Control. These managed switches also come with important industrial features to ensure reliability in industrial applications: RingOn technology with coupling and dual-homing ring allows automatic recovery in less than 15ms; Dual power inputs ensure reliability; A relay alarm outputs port failure notification; DIN-rail and Panel Mounting options on the same IP30 cases. Another important feature is automatic e-mail notification for system events such as a cold start, change in network topology, power status or SNMP authentication failure.

Specifications

Technology	
Standard :	IEEE802.3, 802.3u, 802.3x, 802.3ab, 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) or 10/100/1000BaseT(X) auto negotiation speed
Fiber Ports :	100BaseFX ports (SC/ST connector)
Fiber Module :	1000Base-LX (4 SFP slots)
LED Indicators :	Power, Port Status, 10/100/1000M
Console port :	DB9 male
Output Warning :	Relay, Standard 2 Pin
Power Requirements	
Input Voltage :	12~36VDC @ 30W MAX 10~24VAC @ 30VA MAX
Input Connection :	Standard four terminal power input
Physical Characteristics	
Case :	Slim Metal Case, IP30 Design
Dimensions :	91.2×188.3×132mm
Installation :	DIN Rail or Panel Mounting

Optical Fiber			
Mode	Multi-mode	Single Mode	Single Mode
Transmission Distance	2km	20km	20km
Centre Wavelength	1310nm	1310nm	1310nm
Cable Size	62.5/125um	9/125um	9/125um
TX Power(dBm)	-20~-10dBm	-15~-8dBm	-8~-2dBm
RX Power(dBm)	< -32dBm	< -32dBm	< -24dBm
Transmission Rate	100Mbps	100Mbps	1000Mbps
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

HES28M-4G Series

HES28M-4G-VL	Din-rail Managed, 24 x 100Mbps Copper Port, 4 x Gigabit combo Interface, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES28M-4G-VLW	Din-rail Managed, 24 x 100Mbps Copper Port, 4 x Gigabit combo Interface, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HES28M-4G-2SC-VL	Din-rail Managed, 22 x 100Mbps Copper Port, 2 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 4 x Gigabit Combo Ports, 2km, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES28M-4G-2SC-VLW	Din-rail Managed, 22 x 100Mbps Copper Port, 2 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 4 x Gigabit Combo Ports, 2km, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HES28M-4G-2SSC-VL	Din-rail Managed, 22 x 100Mbps Copper Port, 2 x 100Mbps Single-Mode Fiber Port with SC Connectors, 4 x Gigabit Combo Ports, 20km, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES28M-4G-2SSC-VLW	Din-rail Managed, 22 x 100Mbps Copper Port, 2 x 100Mbps Single-Mode Fiber Port with SC Connectors, 4 x Gigabit Combo Ports, 20km, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HES28M-4G-4SC-VL	Din-rail Managed, 20 x 100Mbps Copper Port, 4 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 4 x Gigabit Combo Ports, 2km, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES28M-4G-4SC-VLW	Din-rail Managed, 20 x 100Mbps Copper Port, 4 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 4 x Gigabit Combo Ports, 2km, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HES28M-4G-4SSC-VL	Din-rail Managed, 20 x 100Mbps Copper Port, 4 x 100Mbps Single-Mode Fiber Port with SC Connectors, 4 x Gigabit Combo Ports, 20km, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES28M-4G-4SSC-VLW	Din-rail Managed, 20 x 100Mbps Copper Port, 4 x 100Mbps Single-Mode Fiber Port with SC Connectors, 4 x Gigabit Combo Ports, 20km, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HES28M-4G-6SC-VL	Din-rail Managed, 18 x 100Mbps Copper Port, 6 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 4 x Gigabit Combo Ports, 2km, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES28M-4G-6SC-VLW	Din-rail Managed, 18 x 100Mbps Copper Port, 6 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 4 x Gigabit Combo Ports, 2km, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HES28M-4G-6SSC-VL	Din-rail Managed, 18 x 100Mbps Copper Port, 6 x 100Mbps Single-Mode Fiber Port with SC Connectors, 4 x Gigabit Combo Ports, 20km, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES28M-4G-6SSC-VLW	Din-rail Managed, 18 x 100Mbps Copper Port, 6 x 100Mbps Single-Mode Fiber Port with SC Connectors, 4 x Gigabit Combo Ports, 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