

# Product Information

# HES10GM Series

## 10G-Port Din-rail Full Gigabit Managed Ethernet Switches



## Features

- RingOn and RingOpen (recovery time < 15ms), RSTP for network redundancy
- SNMPv1/v2c/v3 for network management of different levels
- IGMP snooping and GMRP for filtering multicast traffic
- QoS (IEEE 802.1p/1Q) and TOS/DiffServ to increase determinism
- -40 to +75°C operating temperature range (W models)
- IP30 DIN Rail or Panel Mount



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## Introduction

The HES10GM series is equipped with 8 Gigabit Ports, making it ideal for upgrading an existing network to Gigabit speed or building a new full Gigabit backbone. Gigabit transmission increases bandwidth for higher performance and transfers large amounts of triple-play services across a network quickly. Redundant Ethernet RingOpen, RingOn, RSTP, and MSTP increase system reliability and the availability of your network backbone. The HES10GM series is designed especially for communication demanding applications, such as video and process monitoring, ITS, and DCS systems, all of which can benefit from a scalable backbone construction.

## Specifications

<b>Technology</b>		<b>Power Requirements</b>	
Standard :	IEEE802.3, 802.3u, 802.3x, 802.3z	Input Voltage :	12~36VDC @ 24W MAX 10~24VAC @ 24VA MAX
Flow Control :	IEEE802.3x flow control, back pressure flow control	Input Connection :	Grid panel terminal blocks Standard 4 pin input connection (optional)
Protocols :	IGMP Snooping, GMRP, SNMPv1/v2c/v3, DHCP Client, HTTP, HTTPS, Telnet, NTP Client	<b>Physical Characteristics</b>	
	<b>L2 Functions</b>	Case :	Slim Metal Case, IP30 Design
	<ul style="list-style-type: none"> <li>• IEEE 802.1Q Static VLAN and VLAN Label</li> <li>• Link Layer Management Protocol (LLDP)</li> <li>• IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)</li> <li>• IGMP SNOOPING</li> <li>• RingOn™ Redundant Technology, recovery time &lt;15ms</li> <li>• RingOpen Redundancy</li> </ul>	Dimensions :	64.2×183.1×155.1mm
	<b>Management Tools</b>	Installation :	DIN Rail or Panel Mounting
Software functions :	<ul style="list-style-type: none"> <li>• Web Interface (HTTP and HTTPS)</li> <li>• Console port and Command Line Interface(CLI) controlled by SSHv2</li> <li>• SNMPv1/v2c/v3</li> <li>• Flexible configuration and log file management</li> <li>• Managing local file through HTTP, FTP and TFTP</li> <li>• Syslog(System log file and remote syslog server)</li> <li>• SNTP(NTP Client)</li> <li>• Software Online Upgrading</li> </ul>	<b>Environment Limits</b>	
		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)
		<b>Standards and Certifications</b>	
		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
		<b>Warranty</b>	
		Warranty Period :	3 years
<b>Switch Properties</b>			
MAC Table Size :	16K		
Priority Queues :	8		
Max. Number VLANs :	64		
VLAN ID Range :	VID 1 to 4094		
IGMP Groups :	256		
<b>Interface</b>			
Fiber Port :	1000M Gigabit SFP slots.		
LED Indicators :	Power, Port Status, 10/100/1000M		
Output Warning :	Relay, Standard 2 Pin @30V		
Console Port :	RS-232 (RJ45 connector)		

## Ordering Information

### HES10GM Series

HES10GM-2SFP-VL	Din-rail Managed, 8 Gigabit Ports, 2 x Gigabit SFP Slots, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES10GM-2SFP-VLW	Din-rail Managed, 8 Gigabit Ports, 2 x Gigabit SFP Slots, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC