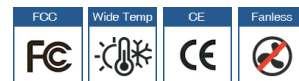# HES12GM Series

12G-Port Din-rail Full Gigabit Managed Ethernet Switches

Features

- Up to 8 10/100/1000 BaseT(X) ports
- Up to 12 1000BaseSFP slots
- RingOn and RSTP for network redundancy
- IEEE802.1Q VLAN and GVRP protocols to ease network planning
- Bandwidth management ensures stable network performance
- Automatic warning by exception through email and relay output

FCC	Wide Temp	CE	Fanless

Introduction

The HES12GM series is equipped with 12 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/STP, and MSTP increase system reliability and the availability of your network backbone. The HES12GM 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

Technology	
Standard	IEEE802.3, 802.3u, 802.3x, 802.3z
Flow Control	IEEE802.3x flow control, back pressure flow control
Protocols	IGMP Snooping, GMRP, SNMPv1/v2c/v3, DHCP Client, HTTP, HTTPS, Telnet, NTP Client
Switch Properties	
MAC Table Size	16K
Priority Queues	8
Max. Number VLANs	64
VLAN ID Range	VID 1 to 4094
IGMP Groups	256
Interface	
RJ45 Port	10/100/1000BaseT(X) auto negotiation
Fiber Ports	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)

Software Function

L2 Functions	IEEE 802.1Q Static VLAN and VLAN Label Link Layer Management Protocol (LLDP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IGMP SNOOPING RingOn™ Redundant Technology, recovery time <15ms RingOpen Redundancy
Management Tools	Web Interface (HTTP and HTTPS) Console port and Command Line Interface(CLI) controlled by SSHv2 SNMPv1/v2c/v3 Flexible configuration and log file management Managing local file through HTTP, FTP and TFTP Syslog(System log file and remote syslog server) SNTP(NTP Client) Software Online Upgrading

Power Requirements

Input Voltage	12~36VDC @ 24W MAX 10~24VAC @ 24VA MAX
Input Connection	Grid panel terminal blocks Standard 4 pin input connection (optional)

Physical Characteristics

Case	Slim Metal Case, IP30 Design
Dimensions	64.2×183.1×155.1mm
Installation	DIN Rail or Panel Mounting

Environment Limits

Operating Temp	Standard Models: -10 to 60℃ Wide Temp. Models: -40 to 75℃
Storage Temp	-40 to 85℃
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

HES12GM-4SFP-VL	Din-rail Managed, 8 x Gigabit Copper Port, 4 x Gigabit SFP Slots, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES12GM-4SFP-VLW	Din-rail Managed, 8 x Gigabit Copper Port, 4 x Gigabit SFP Slots, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HES12GM-12SFP-VL	Din-rail Managed, 12 x Gigabit SFP Slots, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES12GM-12SFP-VLW	Din-rail Managed, 12 x Gigabit SFP Slots, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC