

Product Information

HES10GM-8E Series

10G-port full Gigabit Managed Ethernet switches with
8 IEEE 802.3af/at PoE+ ports



Features

- ❖ 8 10/100/1000BaseTX RJ-45 Ports (All ports support IEEE 802.3af/at PoE+)
- ❖ -40°C to +75°C Operating Temperature
- ❖ PoE+ Reset function: hardware or software control of power recycling of PoE+ ports (this function is optional for a DIP Switch)
- ❖ Redundant Power Input (44~57VDC)
- ❖ Configurable Alarm Contact

Introduction

The HES10GM-8E Series are full gigabit managed PoE+ Ethernet switches that come standard with 8 10/100/1000BaseT(X), 802.3af (PoE), and 802.3at (PoE+)-compliant Ethernet ports, and up to 2 Gigabit SFP fiber ports. Each POE+ port is able to offer up to 30 watts power for PD device. The power input ranges from 44~57VDC. The switch is installed with Din-rail or panel mount.

The HES10GM-8E Ethernet switches are highly versatile, and the SFP fiber ports can transmit data up to 120 km from the device to the control center with high EMI immunity. The Ethernet switches support a variety of management functions, including STP/RSTP, RingOpen, RingOn, PoE power management, PoE device auto-checking, PoE power scheduling, IGMP, VLAN, QoS, bandwidth management.

Specifications

| Technology | | Interface | |
|-----------------------------|--|------------------------------------|---|
| Standard : | IEEE802.3af/at, 802.3, 802.3u, 802.3x, 802.3ab, 802.3z, 802.1w, 802.1Q, 802.1p | RJ45 Port : | Auto-negotiation 10/100/1000Base-T, Full/Half Duplex, Auto-MDI/MDIX |
| Processing Type : | Store and forward | Fiber Ports : | 100/1000Base-X SFP interface. SFP module is MSA-compliant. |
| Broadcast Storm : | Automatic Broadcast Storm Control | PoE+ Pin out : | V+, V+, V-, V-, for pin 4, 5, 7, 8 (Midspan) |
| Flow Control : | Full Duplex Flow Control, Half Duplex Back Pressure Control | Console port : | RJ45 |
| Protocols : | SNMP V1/V2c/V3, RingOn/RingOpen, HTTP/HTTPS, LLDP, DHCP Client, IGMP Snooping/GMRP, Telnet, Syslog | DIP Switch : | Dial switch |
| Software Functions : | <ul style="list-style-type: none"> • RingOn Redundant Ring Technology: Recovery time less than 15ms • VLAN: Port Based VLAN, IEEE 802.1Q Tag VLAN • Port Trunking • Built-in Web Server, remote management and configuration through browser • Quality of Service : Determined by port, tag(CoS), and IPv4 different service(DSCP) • IGMP Snooping /GMRP • Static MAC Address Forwarding • SNMP V1/V2c/V3 • RSTP • LLDP • On-line Software Upgrading • Automatic warning by exception through e-mail or relay output • System Log • DHCP Client • Port Mirror: Supports TX, RX, and both packet • Broadcast storm control and Port-Based traffic control • IP Security: 10 IP address entries for permission to access management functions | LED Indicators : | P1, P2, Link, State, MAX, POE+ (1~8) |
| | Alarm : | Relay, Email | |
| | Relay output : | Standard 2-pin terminal blocks | |
| | Power Requirements | | |
| | Input Voltage : | 44~57VDC | |
| | Power budget : | 325W MAX | |
| | Input Connection : | Standard four terminal power input | |
| | Physical Characteristics | | |
| | Case : | Slim Metal Case, IP30 Design | |
| | Dimensions : | 45×173×120mm (W*H*D) | |
| Installation : | DIN Rail or Panel Mounting | | |
| Optical Fiber | | | |
| Mode | Single Mode | | |
| Transmission Distance | 20km | | |
| Centre Wavelength | 1310nm | | |
| Cable Size | 9/125um | | |
| TX Power(dBm) | -8~-2dBm | | |
| RX Power(dBm) | < -24dBm | | |
| Transmission Rate | 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) | | |
| Switch Properties | | | |
| MAC Table Size : | 8K | | |
| Packet Buffer Size : | 512K | | |
| Jumbo Frame Size : | Supports up to 16KB | | |

| Standards and Certifications | |
|------------------------------|------------------------------------|
| Safety : | EN60950, UL60950, IEC60950 |
| 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 |

| 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) |
| Warranty | |
| Warranty Period : | 3 years |

Ordering Information

HES10GM-8E

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|----------------------|---|
| HES10GM-8E-2SFP-2VL | Din-rail Managed, 8 x 1000Mbps POE+ Copper Port, 2 x 1000Mbps SFP Fiber Port, Industrial Temperature -10 to +60 °C, Power Input 44~57VDC |
| HES10GM-8E-2SFP-2VLW | Din-rail Managed, 8 x 1000Mbps POE+ Copper Port, 2 x 1000Mbps SFP Fiber Port, Industrial Wide Temperature -40 to +75 °C, Power Input 44~57VDC |