Product Information

HES12M-4G Series

8+4G-Port Din-rail Gigabit Managed Ethernet Switches













Tel: 860-487-9869

Fax: 860-487-9478 www.henrich-inc.com

Features

- Up to 8 100Mbps Copper Port
- Up to 4 Gigabit Combo Interfaces
- RingOn (recovery time < 15ms), RSTP for Network Redundancy
- Automatic E-mail and Relay Notification for System Events
- -40 to +75°C Operating Temperature Range (W models)
- IP30 DIN Rail or Panel Mounting

Introduction

The HES12M-4G series Industrial Gigabit Managed Ethernet Switches is equipped with high integration and high reliability in a small platform. Designed for harsh industrial environment, these managed switches also come with powerful information transmission and network management functions. They support up to 8 100Mbps copper ports and 4 Gigabit combo interfaces. There are two choices for power inputs, 12~36VDC or 10~24VAC. Redundant power inputs are available as well. As for installation, both din-rail and panel mounting are optional.

Specifications

| 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 SNMP V1/V2c/V3, RingOn/RingOpen, HTTP/HTTPS, LLDP, DHCP Client, IGMP Snooping/GMRP, Telent, 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 10/100BaseT(X) or 10/100/1000BaseT(X) auto negotiation speed Fiber Ports: 1000Base-LX (4 SFP slots) LED Indicators: Power, Port Status, 10/100/1000M Console port: RJ45 Output Warning: Relay, Standard 2 Pin Power Requirements Input Voltage: 12~36VDC @ 15VM MAX Input Connection: Standard four terminal power input Physical Characteristics Case: Slim Metal Case, IP30 Design Dimensions: 61.6×189.8×132mm Installation: DIN Rail or Panel Mounting | Technology | |
|---|-------------------------|--------------------------------------|
| 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 SNMP V1/V2c/V3, RingOn/RingOpen, HTTP/HTTPS, LLDP, DHCP Client, IGMP Snooping/GMRP, Telent, 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 10/100BaseT(X) or 10/100/1000BaseT(X) auto negotiation speed Fiber Ports: 1000Base-LX (4 SFP slots) LED Indicators: Power, Port Status, 10/100/1000M Console port: RJ45 Output Warning: Relay, Standard 2 Pin Power Requirements Input Voltage: 12~36VDC @ 15W MAX 10~24VAC @ 15VA MAX Input Connection: Standard four terminal power input Physical Characteristics Case: Slim Metal Case, IP30 Design Dimensions: 61.6×189.8×132mm | Standard : | |
| Management: by Web Browser RingOn: Recovery Time within 15ms Flow Control: Full Duplex Flow Control, Half Duplex Back Pressure Control SNMP V1/V2c/V3, RingOn/RingOpen, HTTP/HTTPS, LLDP, DHCP Client, IGMP Snooping/GMRP, Telent, 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: 10/100/1000BaseT(X) or 10/100/1000BaseT(X) auto negotiation speed Fiber Ports: 1000Base-LX (4 SFP slots) LED Indicators: Power, Port Status, 10/100/1000M Console port: RJ45 Output Warning: Relay, Standard 2 Pin Power Requirements Input Voltage: 12~36VDC @ 15W MAX 10~24VAC @ 15VA MAX Input Connection: Standard four terminal power input Physical Characteristics Case: Slim Metal Case, IP30 Design Dimensions: 61.6×189.8×132mm | Processing Type : | Store and forward |
| RingOn: Recovery Time within 15ms Flow Control: Full Duplex Flow Control, Half Duplex Back Pressure Control SNMP V1/V2c/V3, RingOn/RingOpen, HTTP/HTTPS, LLDP, DHCP Client, IGMP Snooping/GMRP, Telent, 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: 10/100/BaseT(X) or 10/100/1000BaseT(X) auto negotiation speed Fiber Ports: 1000Base-LX (4 SFP slots) LED Indicators: Power, Port Status, 10/100/1000M Console port: RJ45 Output Warning: Relay, Standard 2 Pin Power Requirements Input Voltage: 12~36VDC @ 15W MAX 10~24VAC @ 15VA MAX Input Connection: Standard four terminal power input Physical Characteristics Case: Slim Metal Case, IP30 Design Dimensions: 61.6×189.8×132mm | Broadcast Storm : | Automatic Broadcast Storm Control |
| Flow Control: Full Duplex Flow Control, Half Duplex Back Pressure Control SNMP V1/V2c/V3, RingOn/RingOpen, HTTP/HTTPS, LLDP, DHCP Client, IGMP Snooping/GMRP, Telent, Syslog Switch Properties MAC Table Size: MAC Table Size: MAX. Number VLANs: 64 VLAN ID Range: VID 1 to 4094 IGMP Groups: 256 Interface T0/100BaseT(X) or 10/100/1000BaseT(X) auto negotiation speed Fiber Ports: 1000Base-LX (4 SFP slots) LED Indicators: Power, Port Status, 10/100/1000M Console port: RJ45 Output Warning: Relay, Standard 2 Pin Power Requirements Input Voltage: 12~36VDC @ 15W MAX 10~24VAC @ 15VA MAX Input Connection: Standard four terminal power input Physical Characteristics Case: Slim Metal Case, IP30 Design Dimensions: 61.6×189.8×132mm | Management: | by Web Browser |
| Protocols: Back Pressure Control SNMP V1/V2c/V3, RingOn/RingOpen, HTTP/HTTPS, LLDP, DHCP Client, IGMP Snooping/GMRP, Telent, 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: 10/100/1000BaseT(X) or 10/100/1000BaseT(X) auto negotiation speed Fiber Ports: 1000Base-LX (4 SFP slots) LED Indicators: Power, Port Status, 10/100/1000M Console port: RJ45 Output Warning: Relay, Standard 2 Pin Power Requirements Input Voltage: 12~36VDC @ 15W MAX 10~24VAC @ 15VA MAX Input Connection: Standard four terminal power input Physical Characteristics Case: Slim Metal Case, IP30 Design Dimensions: 61.6×189.8×132mm | RingOn : | Recovery Time within 15ms |
| Protocols: HTTP/HTTPS, LLDP, DHCP Client, IGMP Snooping/GMRP, Telent, 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: 1000Base-LX (4 SFP slots) LED Indicators: Power, Port Status, 10/100/1000M Console port: RJ45 Output Warning: Relay, Standard 2 Pin Power Requirements Input Voltage: 12~36VDC @ 15W MAX 10~24VAC @ 15VA MAX Input Connection: Standard four terminal power input Physical Characteristics Case: Slim Metal Case, IP30 Design Dimensions: 61.6×189.8×132mm | Flow Control : | |
| 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: 1000Base-LX (4 SFP slots) LED Indicators: Power, Port Status, 10/100/1000M Console port: RJ45 Output Warning: Relay, Standard 2 Pin Power Requirements Input Voltage: 12~36VDC @ 15W MAX 10~24VAC @ 15VA MAX Input Connection: Standard four terminal power input Physical Characteristics Case: Slim Metal Case, IP30 Design Dimensions: 61.6×189.8×132mm | Protocols : | HTTP/HTTPS, LLDP, DHCP Client, |
| Priority Queues: 4 Max. Number VLANs: 64 VLAN ID Range: VID 1 to 4094 IGMP Groups: 256 Interface 10/100BaseT(X) or 10/100/1000BaseT(X) auto negotiation speed Fiber Ports: 1000Base-LX (4 SFP slots) LED Indicators: Power, Port Status, 10/100/1000M Console port: RJ45 Output Warning: Relay, Standard 2 Pin Power Requirements 12~36VDC @ 15W MAX 10~24VAC @ 15VA MAX Input Connection: Standard four terminal power input Physical Characteristics Case: Case: Slim Metal Case, IP30 Design Dimensions: 61.6×189.8×132mm | Switch Properties | |
| Max. Number VLANs: 64 VLAN ID Range: VID 1 to 4094 IGMP Groups: 256 Interface RJ45 Port: 10/100/1000BaseT(X) or 10/100/1000BaseT(X) auto negotiation speed Fiber Ports: 1000Base-LX (4 SFP slots) LED Indicators: Power, Port Status, 10/100/1000M Console port: RJ45 Output Warning: Relay, Standard 2 Pin Power Requirements Input Voltage: 12~36VDC @ 15W MAX 10~24VAC @ 15VA MAX Input Connection: Standard four terminal power input Physical Characteristics Case: Slim Metal Case, IP30 Design Dimensions: 61.6×189.8×132mm | MAC Table Size : | 8K |
| VLAN ID Range : VID 1 to 4094 IGMP Groups : 256 Interface 10/100BaseT(X) or 10/100/1000BaseT(X) auto negotiation speed Fiber Ports : 1000Base-LX (4 SFP slots) LED Indicators : Power, Port Status, 10/100/1000M Console port : RJ45 Output Warning : Relay, Standard 2 Pin Power Requirements Input Voltage : 12~36VDC @ 15W MAX 10~24VAC @ 15VA MAX Input Connection : Standard four terminal power input Physical Characteristics Case : Slim Metal Case, IP30 Design Dimensions : 61.6×189.8×132mm | Priority Queues : | 4 |
| IGMP Groups: 256 Interface RJ45 Port: 10/100BaseT(X) or 10/100/1000BaseT(X) auto negotiation speed Fiber Ports: 1000Base-LX (4 SFP slots) LED Indicators: Power, Port Status, 10/100/1000M Console port: RJ45 Output Warning: Relay, Standard 2 Pin Power Requirements Input Voltage: 12~36VDC @ 15W MAX 10~24VAC @ 15VA MAX Input Connection: Standard four terminal power input Physical Characteristics Case: Slim Metal Case, IP30 Design Dimensions: 61.6×189.8×132mm | Max. Number VLANs : | 64 |
| Interface RJ45 Port: 10/100BaseT(X) or 10/100/1000BaseT(X) auto negotiation speed Fiber Ports: 1000Base-LX (4 SFP slots) LED Indicators: Power, Port Status, 10/100/1000M Console port: RJ45 Output Warning: Relay, Standard 2 Pin Power Requirements Input Voltage: 12~36VDC @ 15W MAX 10~24VAC @ 15VA MAX Input Connection: Standard four terminal power input Physical Characteristics Case: Slim Metal Case, IP30 Design Dimensions: 61.6×189.8×132mm | VLAN ID Range : | VID 1 to 4094 |
| RJ45 Port: 10/100BaseT(X) or 10/100/1000BaseT(X) auto negotiation speed Fiber Ports: 1000Base-LX (4 SFP slots) LED Indicators: Power, Port Status, 10/100/1000M Console port: RJ45 Output Warning: Relay, Standard 2 Pin Power Requirements Input Voltage: 12~36VDC @ 15W MAX 10~24VAC @ 15VA MAX Input Connection: Standard four terminal power input Physical Characteristics Case: Slim Metal Case, IP30 Design Dimensions: 61.6×189.8×132mm | IGMP Groups : | 256 |
| RJ45 Port: 10/100/1000BaseT(X) auto negotiation speed Fiber Ports: 1000Base-LX (4 SFP slots) LED Indicators: Power, Port Status, 10/100/1000M Console port: RJ45 Output Warning: Relay, Standard 2 Pin Power Requirements Input Voltage: 12~36VDC @ 15W MAX 10~24VAC @ 15VA MAX Input Connection: Standard four terminal power input Physical Characteristics Case: Slim Metal Case, IP30 Design Dimensions: 61.6×189.8×132mm | Interface | |
| LED Indicators: Power, Port Status, 10/100/1000M Console port: RJ45 Output Warning: Relay, Standard 2 Pin Power Requirements Input Voltage: 12~36VDC @ 15W MAX 10~24VAC @ 15VA MAX Input Connection: Standard four terminal power input Physical Characteristics Case: Slim Metal Case, IP30 Design Dimensions: 61.6×189.8×132mm | RJ45 Port : | 10/100/1000BaseT(X) auto negotiation |
| Console port: RJ45 Output Warning: Relay, Standard 2 Pin Power Requirements Input Voltage: 12~36VDC @ 15W MAX 10~24VAC @ 15VA MAX Input Connection: Standard four terminal power input Physical Characteristics Case: Slim Metal Case, IP30 Design Dimensions: 61.6×189.8×132mm | Fiber Ports : | 1000Base-LX (4 SFP slots) |
| Output Warning: Relay, Standard 2 Pin Power Requirements Input Voltage: 12~36VDC @ 15W MAX 10~24VAC @ 15VA MAX Input Connection: Standard four terminal power input Physical Characteristics Case: Slim Metal Case, IP30 Design Dimensions: 61.6×189.8×132mm | LED Indicators : | Power, Port Status, 10/100/1000M |
| Power Requirements Input Voltage: 12~36VDC @ 15W MAX 10~24VAC @ 15VA MAX Input Connection: Standard four terminal power input Physical Characteristics Case: Slim Metal Case, IP30 Design Dimensions: 61.6×189.8×132mm | Console port : | RJ45 |
| Input Voltage: 12~36VDC @ 15W MAX 10~24VAC @ 15VA MAX Input Connection: Standard four terminal power input Physical Characteristics Case: Slim Metal Case, IP30 Design Dimensions: 61.6×189.8×132mm | Output Warning: | Relay, Standard 2 Pin |
| Input Voltage: 10~24VAC @ 15VA MAX Input Connection: Standard four terminal power input Physical Characteristics Case: Slim Metal Case, IP30 Design Dimensions: 61.6×189.8×132mm | Power Requirements | |
| Physical Characteristics Case: Slim Metal Case, IP30 Design Dimensions: 61.6×189.8×132mm | Input Voltage : | • |
| Case : Slim Metal Case, IP30 Design Dimensions : 61.6×189.8×132mm | Input Connection : | Standard four terminal power input |
| Dimensions : 61.6×189.8×132mm | Physical Characteristic | cs |
| | Case: | Slim Metal Case, IP30 Design |
| Installation : DIN Rail or Panel Mounting | Dimensions : | 61.6×189.8×132mm |
| | 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) |
| Standards and Certific | ations |
| 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 Warranty Period : | 3 years |

Tel: 860-487-9869 www.henrich-inc.com

Ordering Information

HES12M-4G Series

| HES12M-4G-VL | Din-rail Managed, 8 x 100Mbps Copper Port, 4 x Gigabit Combo Ports, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC |
|---------------|--|
| HES12M-4G-VLW | Din-rail Managed, 8 x 100Mbps Copper Port, 4 x Gigabit combo Ports, Industrial Wide Temperature -40°C to +85°C, Power Input 12~36VDC |

Tel: 860-487-9869 www.henrich-inc.com