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Product Information

HES10M-2G Series

8+2G-Port Din-rail Gigabit Managed Ethernet Switches



Features

- ❖ Up to 2 Gigabit Combo Ports
- ❖ RingOn (recovery time < 15ms), RSTP for Network Redundancy
- ❖ Automatic E-mail Notification for system events
- ❖ Port Mirror and Port Trunk with LACP
- ❖ -40 to +75°C Operating Temperature Range (W models)
- ❖ IP30 DIN Rail or Panel Mounting

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Introduction

The HES10M-2G series Industrial Gigabit Managed Ethernet Switches provide powerful functionality in a small package. Designed for industrial applications, these switches contain 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 an industrial application. RingOn technology with coupling ring and dual homing allows automatic recovery in less than 15ms. Dual power inputs ensure reliability. A relay alarm output for port failure notification. DIN Rail and Panel Mounting options on the same IP30 case. 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 (2 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 @ 15W MAX 10~24VAC @ 15VA MAX |
| Input Connection : | Standard four terminal power input |
| Physical Characteristics | |
| Case : | Slim Metal Case, IP30 Design |
| Dimensions : | 82.5×138×122.3mm |
| 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

HES10M-2G Series

| | |
|--------------------|--|
| HES10M-2G-VL | Din-rail Managed, 8 x 100Mbps Copper Port, 2 x Gigabit Combo Port, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC |
| HES10M-2G-VLW | Din-rail Managed, 8 x 100Mbps Copper Port, 2 x Gigabit Combo Port, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC |
| HES10M-2G-2SC-VL | Din-rail Managed, 6 x 100Mbps Copper Port, 2 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2 x Gigabit Combo Port, 2km, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC |
| HES10M-2G-2SC-VLW | Din-rail Managed, 6 x 100Mbps Copper Port, 2 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2 x Gigabit Combo Port, 2km, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC |
| HES10M-2G-2SSC-VL | Din-rail Managed, 6 x 100Mbps Copper Port, 2 x 100Mbps Single-Mode Fiber Port with SC Connectors, 2 x Gigabit Combo Port, 20km, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC |
| HES10M-2G-2SSC-VLW | Din-rail Managed, 6 x 100Mbps Copper Port, 2 x 100Mbps Single-Mode Fiber Port with SC Connectors, 2 x Gigabit Combo Port, 20km, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC |
| HES10M-2G-4SC-VL | Din-rail Managed, 4 x 100Mbps Copper Port, 4 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2 x Gigabit Combo Port, 2km, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC |
| HES10M-2G-4SC-VLW | Din-rail Managed, 4 x 100Mbps Copper Port, 4 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2 x Gigabit Combo Port, 2km, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC |
| HES10M-2G-4SSC-VL | Din-rail Managed, 4 x 100Mbps Copper Port, 4 x 100Mbps Single-Mode Fiber Port with SC Connectors, 2 x Gigabit Combo Port, 20km, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC |
| HES10M-2G-4SSC-VLW | Din-rail Managed, 4 x 100Mbps Copper Port, 4 x 100Mbps Single-Mode Fiber Port with SC Connectors, 2 x Gigabit Combo Port, 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