

HES5A-4E Series

5-port Unmanaged Ethernet Switches with 4 IEEE 802.3af/at PoE+ ports

Features

- IEEE 802.3af/at compliant PoE
- Up to 30 watts per PoE port
- 24/52VDC wide range redundant power inputs
- Redundant dual VDC power inputs
- -40 to +75°C operating temperature range



Introduction

The HES5A-4E switches are smart, 5-port, unmanaged Ethernet switches supporting PoE (Power-over-Ethernet) on ports 2 to 5. The switches are classified as power source equipment (PSE), and when used in this way, the HES5A-4E switches enable centralization of the power supply and provide up to 30 watts of power per port. The switches can be used to power IEEE 802.3af/at compliant powered devices (PD), eliminating the need for additional wiring, and support IEEE 802.3/802.3u/802.3x with 10/100M, full/half-duplex, MDI/MDI-X auto-sensing to provide an economical solution for your industrial Ethernet network.

Specifications

Technology	
Standard	IEEE802.3, 802.3u, 802.3x, 802.3af/at
Processing Type	Store and Forward
Broadcast Storm	Automatic Broadcast Storm Control
Flow Control	Full Duplex Flow Control, Half Duplex Back Pressure Control
Protocols	CSMA/CD (Carrier Sense Multiple Access/Collision Direct)
Switch Properties	
MAC Table Size	1K
Interface	
RJ45 Port	Auto-negotiation 10/100Base-T, Full/Half-Duplex, Auto-MDI/MDIX
Fiber Ports	100Base-FX or SFP interface. SFP module is optional
LED Indicators	Power, Port Status, 10/100M
Power Requirements	
Input Voltage	24~52VDC @ 140W MAX
Input Connection	Standard four terminal power input

Physical Characteristics

Case	Slim Metal Case, IP30 Design
Dimensions	45×110×76mm
Installation	DIN Rail or Panel Mounting

Optical Fiber

Mode	Multi-mode	Single Mode
Transmission Distance	2km	20km
Centre Wavelength	1310nm	1310nm
Cable Size	62.5/125um	9/125um
TX Power(dBm)	-20 to -10dBm	-15 to -8dBm
RX Power(dBm)	< -32dBm	< -32dBm
Transmission Rate	100Mbps	100Mbps

Environment Limits

Operating Temp	Standard Models: -10°C to 60°C Wide Temp. Models: -40°C to 75°C
Storage Temp	-40°C 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
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Ordering Information

HES5A-4E-VL	Din-rail Unmanaged, 1 x 100Mbps Copper Port, 4 x PoE+ 100Mbps Copper Port, Industrial Temperature -10 to +60°C, Power Input 24~52VDC
HES5A-4E-VLW	Din-rail Unmanaged, 1 x 100Mbps Copper Port, 4 x PoE+ 100Mbps Copper Port, Industrial Wide Temperature -40 to +75°C, Power Input 24~52VDC
HES5A-4E-SFP-VL	Din-rail Unmanaged, 1 x 100Mbps SFP Fiber Port, 4 x PoE+ 100Mbps Copper Port, Industrial Temperature -10 to +60°C, Power Input 24~52VDC
HES5A-4E-SFP-VLW	Din-rail Unmanaged, 1 x 100Mbps SFP Fiber Port, 4 x PoE+ 10/100Mbps Copper Port, Industrial Wide Temperature -40 to +75°C, Power Input 24~52VDC