HES5B-X-4E/HES5A-X-4E Series

5-port Din-rail Unmanaged PoE Ethernet Switches

Features:

- 4 × 10/100BaseT(X) PoE+ Ports, 1 x 10/100BaseT(X) Port or 1 x 100BaseFX Port (SC/ST Connector)
- IEEE 802.3af/at PoE Standard, up to 30W Output per PoE+ Port
- DC 44-56V Power Supply with Reverse Protection
- Smart PoE power supply: power will be supplied to the high priority level port first when the power budget is insufficient and overload operation of the device will be avoided.
- -40°C to 75°C Operating Temperature Range Available

RoHS | FCC | Wide Temp | CE | Fanless

Introduction:

The HES5B-X-4E/HES5A-X-4E series switches are smart, 5-port, unmanaged Ethernet switches supporting PoE (Power over Ethernet) on ports 1 to 4. The switches are classified as power source equipment (PSE), and when used in this way, the HES5B-X-4E/HES5A-X-4E series 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:

Ethernet Interface		
10/100BaseT(X) Port (RJ45 connector) or 100BaseFX Port	RJ45 Port: 1 Full/Half Duplex Mode; Auto MDI/MDI-X Adaptive; Auto Negotiation Speed or Fiber Port: 1 (Multi/Single-mode SC/ST Connector)	
PoE Ports (10/100BaseT(X), RJ45 connector)	4 Full/Half Duplex Mode; Auto MDI/MDI-X Adaptive; Auto Negotiation Speed	
Standards	IEEE802.3, IEEE802.3i, IEEE802.3u, IEEE802.3x, IEEE 802.3af/at	
PoE Supply Pin	1/2(+) 3/6 (-)	
Power Connector	DC Socket or Phoenix Terminal, with Built-in Reverse Polarity Protection	
Optical Fiber		
Mode	Multi-mode	Single Mode
Transmission Distance	2km	20km
Center Wavelength	1310nm	1310nm
TX Power	-5 ~ -15dBm	-5 ~ -15dBm
RX Power	⩾-32dBm	⩾-32dBm
Transmission Rate	100Mbps	100Mbps

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Switch Properties		
Processing Type	Store and Forward (Full Wire Speed)	
MAC Table Size	2K	
Packet Buffer Size	512K	
Power Requirements		
Input Voltage	DC 44-56V	
Operating Voltage	DC 44-56V	
Power Budget	Standby: < 4W, Full load: af < 60W, at < 120W	
Reverse Polarity Protection	Supported	
Physical Characteristics		
Case	Metal Enclosure, IP30 Design	
Dimensions (Width × Height × Depth)	1.2" × 3.9" × 3.5" (30mm × 98 mm × 88 mm)	
Installation	DIN-rail Mounting	
Environment Limits		
Operating Temperature	HES5B-X: -10 to 60°C (14 to 140°F)	HES5A-X: -40 to 75°C (-40 to 167°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)	
Ambient Relative Humidity	5% to 90% (Non-condensing)	
Standards and Certifications		
EMI	FCC Part15, CISPR (EN55022) Class A	
EMS	Lightning Protection: 6KV 8/20us IEC61000-4-2 (ESD) Level 3, IEC61000-4-3 (RS) Level 3, IEC61000-4-4 (EFT) Level 3, IEC61000-4-5 (Surge) Level 3, IEC61000-4-6 (Radio Frequency Transmission) Level 3, IEC61000-4-8 (Power Frequency Magnetic Field) Level 3, IEC61000-4-9 (Pulsed Magnet Field) Level 3, IEC61000-4-10 (Damped Oscillation) Level 3, IEC61000-4-12/18 (Shockwave) Level 3, IEC61000-4-16 (Common-mode Transmission) Level 3, IEC61000-6-2 (Common Industrial Standard)	
Shock	IEC 60068-2-27	
Freefall	IEC 60068-2-32	
Vibration	IEC 60068-2-6	
Certification	CE Mark, Commercial, CE/LVD EN62368-1, FCC Part 15 Class A, RoHS	
Warranty		
Warranty Period	5 Years	

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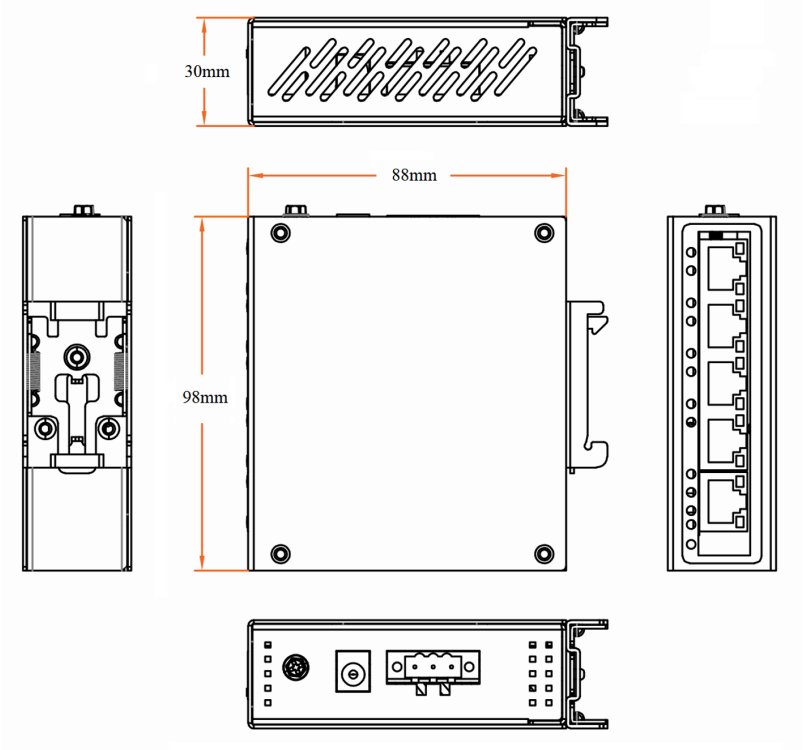
Dimension Drawing:



Ordering Information

HES5B-X-4E	Din-rail Unmanaged, 4 x 100Mbps PoE Copper Port, 1 x 100Mbps Copper Port, Industrial Temperature -10 ~ 60 °C, Power Input 44 ~ 56VDC
HES5B-X-4E-SC	Din-rail Unmanaged, 4 x 100Mbps PoE Copper Port, 1 x 100Mbps Fiber Port, Multi-mode 2km, SC Interface, Industrial Temperature -10 ~ 60 °C, Power Input 44 ~ 56VDC
HES5B-X-4E-SSC	Din-rail Unmanaged, 4 x 100Mbps PoE Copper Port, 1 x 100Mbps Fiber Port, Single-mode 20km, SC Interface, Industrial Temperature -10 ~ 60 °C, Power Input 44 ~ 56VDC
HES5B-X-4E-ST	Din-rail Unmanaged, 4 x 100Mbps PoE Copper Port, 1 x 100Mbps Fiber Port, Multi-mode 2km, ST Interface, Industrial Temperature -10 ~ 60 °C, Power Input 44 ~ 56VDC
HES5B-X-4E-SST	Din-rail Unmanaged, 4 x 100Mbps PoE Copper Port, 1 x 100Mbps Fiber Port, Single-mode 20km, ST Interface, Industrial Temperature -10 ~ 60 °C, Power Input 44 ~ 56VDC
HES5A-X-4E	Din-rail Unmanaged, 4 x 100Mbps PoE Copper Port, 1 x 100Mbps Copper Port, Industrial Temperature -40 ~ 75 °C, Power Input 44 ~ 56VDC
HES5A-X-4E-SC	Din-rail Unmanaged, 4 x 100Mbps PoE Copper Port, 1 x 100Mbps Fiber Port, Multi-mode 2km, SC Interface, Industrial Temperature -40 ~ 75 °C, Power Input 44 ~ 56VDC
HES5A-X-4E-SSC	Din-rail Unmanaged, 4 x 100Mbps PoE Copper Port, 1 x 100Mbps Fiber Port, Single-mode 20km, SC Interface, Industrial Temperature -40 ~ 75 °C, Power Input 44 ~ 56VDC
HES5A-X-4E-ST	Din-rail Unmanaged, 4 x 100Mbps PoE Copper Port, 1 x 100Mbps Fiber Port, Multi-mode 2km, ST Interface, Industrial Temperature -40 ~ 75 °C, Power Input 44 ~ 56VDC
HES5A-X-4E-SST	Din-rail Unmanaged, 4 x 100Mbps PoE Copper Port, 1 x 100Mbps Fiber Port, Single-mode 20km, ST Interface, Industrial Temperature -40 ~ 75 °C, Power Input 44 ~ 56VDC
Other models are available upon request.	

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