HES5GA-Z Series

5-port Full Gigabit Din-rail Unmanaged Ethernet Switches

Features:

- 4 or 5×10/100/1000BaseT(X) Port (RJ45 Connector)
- 1×1000BaseFX Port (SC/ST/SFP Connector)
- Supports 9.2KB Jumbo Frames
- 12 ~ 52 VDC Redundant Dual Power Inputs
- IP40 Metal Housing, Fanless Design
- Lightning Surge Protection (Power Supply): 5000A (8/20μs)
- -40°C to 75°C Operating Temperature

Introduction:

The HES5GA-Z series, 4 or 5 full gigabit copper ports and 1 optical fiber port industrial Ethernet switches, support IEEE802.3u, IEEE802.3x and IEEE802.3z with 10/100/1000BaseT(X) & 1000Base-SX/LX, full/half duplex, MDI/MDI-X auto-sensing. Both series switches are rated to operate at temperatures ranging from -40°C to 75°C. The fanless design, wide operating temperature, lightning surge protection provide the products with high performance of resistance to high and low temperature, reliability and safety of industrial network.

Specifications:

Ethernet Interface		
10/100/1000BaseT(X) Ports (RJ45 Connector)	4 or 5 Full/Half Duplex Mode; Auto MDI/MDI-X Adaptive; Auto Negotiation Speed	
1000Base-SX/LX Ports	1 (Multi/Single-mode SC/ST/SFP Connector)	
Standards	IEEE802.3; IEEE802.3i; IEEE802.3u; IEEE802.3x; IEEE802.3ab; IEEE802.3z	
Optical Fiber		
Mode	Multi-mode	Single-mode
Transmission Distance	1km	20km
Center Wavelength	1310nm	1310nm
TX Power (dBm)	⩾-12dBm	⩾-10dBm
RX Power (dBm)	⩽-24dBm	⩽-24dBm
Transmission Rate	1000Mbps	1000Mbps
Switch Properties		
Processing Type	Store and Forward	
Jumbo Frame Size	9.2KB	
MAC Table Size	2K	
Packet Buffer Size	1.2Mbit	
Power Parameters		
Input Voltage	DC 12-52V Redundant Dual Power Inputs	
Power Consumption	3W Max	
Input Connection	Phoenix Terminal	
Reverse Polarity Protection	Supported	
Overload Current 4.0A Protection	Supported	

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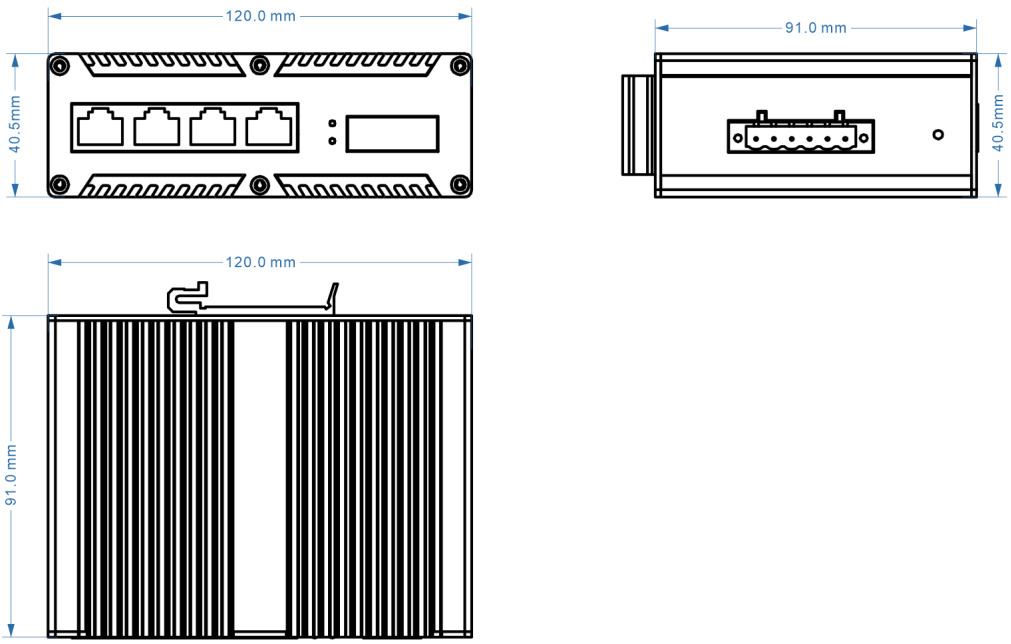
Physical Characteristics	
Case	Metal Enclosure, IP40 Design
Dimensions (Width × Height × Depth)	1.6" × 4.7" × 3.6" (40.5mm ×120 mm × 91 mm)
Installation	DIN Rail Mounting
Weight	0.88lb (400g)
Environment Limits	
Operating Temp	-40°C to 75°C
Storage Temp	-40°C to 80°C
Ambient Relative Humidity	5% to 95% (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(Radio Frequency Transmission) Level 3, EN61000-4-8 (Power Frequency Magnetic Field) Level 3, EN61000-4-16 (Common-mode Transmission) Level 3
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Warranty	
Warranty Period	5 Years

Dimension Drawing:



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Ordering Information

HES5GA-Z	Din-rail Unmanaged, 5 x 1000Mbps Copper Port, Industrial Temperature -40 ~ 75 °C, Power Supply 12 ~ 52VDC
HES5GA-Z-SC	Din-rail Unmanaged, 4 x 1000Mbps Copper Port, 1 x 1000Mbps Fiber Port, Multi-mode 1km, SC Interface, Industrial Temperature -40 ~ 75 °C, Power Supply 12 ~ 52VDC
HES5GA-Z-ST	Din-rail Unmanaged, 4 x 1000Mbps Copper Port, 1 x 1000Mbps Fiber Port, Multi-mode 1km, ST Interface, Industrial Temperature -40 ~ 75 °C, Power Supply 12 ~ 52VDC
HES5GA-Z-SFP	Din-rail Unmanaged, 4 x 1000Mbps Copper Port, 1 x 1000Mbps Fiber Port, SFP Interface, Industrial Temperature -40 ~ 75 °C, Power Supply 12 ~ 52VDC
HES5GA-Z-SSC	Din-rail Unmanaged, 4 x 1000Mbps Copper Port, 1 x 1000Mbps Fiber Port, Single-mode 20KM, SC Interface, Industrial Temperature -40 ~ 75 °C, Power Supply 12 ~ 52VDC
HES5GA-Z-SST	Din-rail Unmanaged, 4 x 1000Mbps Copper Port, 1 x 1000Mbps Fiber Port, Single-mode 20KM, ST Interface, Industrial Temperature -40 ~ 75 °C, Power Supply 12 ~ 52VDC
Other models are available upon request.	

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