HES10GB-Z/HES10GA-Z Series

10-port (with 2 Optical Fiber Ports) Full Gigabit Din-rail Unmanaged Ethernet Switches

Features:

- 8 × 10/100/1000M Copper Ports and 2 x 1000M Optical Fiber Ports (SC/ST/SFP Connectors)
- -40°C to 75°C Operating Temperature Types Available
- DC 12-52V Redundant Dual Power Inputs
- IP40-rated Metal Housing
- Lightning Surge Protection (Power Supply): 5000A (8/20μs)
- Supports 9.2KB Jumbo Frames

Introduction:

The HES10GB-Z/HES10GA-Z series of industrial Ethernet switches have eight 10/100/1000M copper ports and two 1000M optical fiber ports (SC/ST/SFP connectors), which are ideal for applications that require high-bandwidth data convergence. This series switches have 12-52 VDC redundant power inputs, DIN-rail mounting, high-level EMI/EMC capability and the protection for lightning surge is up to 8KV. This series has standard operating temperature range of -10 to 60°C with wide-temperature (-40 to 75°C) models also available.

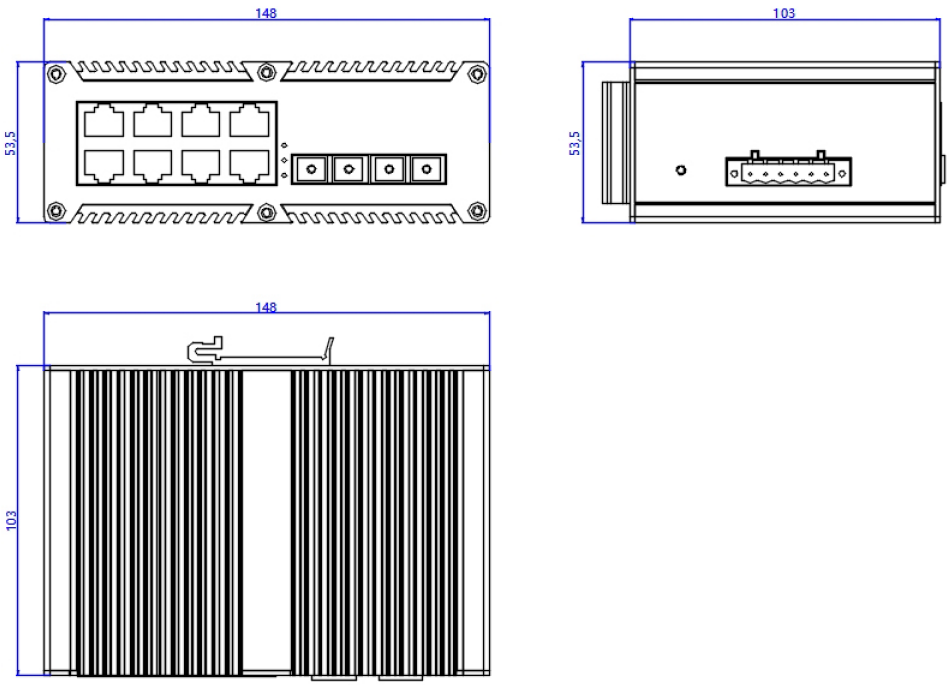
Specifications:

Ethernet Interface		
10/100/1000BaseT(X) Ports (RJ45 Connector)	8 Full/Half Duplex Mode; Auto MDI/MDI-X Adaptive; Auto Negotiation Speed	
1000BaseFX Ports or 1000BaseSFP Ports	2 (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	1.25Gbps	1.25Gbps
Switch Properties		
Processing Type	Store and Forward	
Jumbo Frame Size	9.2KB	
MAC Table Size	8K	
Packet Buffer Size	2Mbit	
Power Requirements		
Input Voltage	DC 12-52 V	
Power Consumption	8W Max	
Input Connection	Phoenix Terminal	
Reverse Polarity Protection	Supported	
Overload Current 4.0A Protection	Supported	

HENRICH®
PHONE: (909) 939-2468
EMAIL: customer_service@henrich-inc.com
WEBSITE: www.henrich-inc.com

Physical Characteristics		
Case	Metal Enclosure, IP40 Design	
Dimensions (Width × Height × Depth)	2.1" × 5.8" × 4.1" (53.5mm ×148 mm × 103 mm)	
Installation	DIN-rail Mounting	
Environmental Limits		
Operating Temp	HES10GB-Z Serires: -10°C to 60°C	HES10GA-Z Series: -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

8 × 10/100M Copper Ports and 2 x 10/100/1000M Optical Fiber Ports	
HES10GB-Z-2SC	Din-rail Unmanaged, 8 x 1000Mbps Copper Port, 2 x 1000Mbps Fiber Port, Multi-Mode 1km, SC Interface, Industrial Temperature -10 ~ 60 °C, Power Supply 12 ~ 52VDC
HES10GB-Z-2ST	Din-rail Unmanaged, 8 x 1000Mbps Copper Port, 2 x 1000Mbps Fiber Port, Multi-Mode 1km, ST Interface, Industrial Temperature -10 ~ 60 °C, Power Supply 12 ~ 52VDC
HES10GB-Z-2SFP	Din-rail Unmanaged, 8 x 1000Mbps Copper Port, 2 x 1000Mbps Fiber Port, SFP Interface, Industrial Temperature -10 ~ 60 °C, Power Supply 12 ~ 52VDC
HES10GB-Z-2SSC	Din-rail Unmanaged, 8 x 1000Mbps Copper Port, 2 x 1000Mbps Fiber Port, Single-mode 20km, SC Interface, Industrial Temperature -10 ~ 60 °C, Power Supply 12 ~ 52VDC
HES10GB-Z-2SST	Din-rail Unmanaged, 8 x 1000Mbps Copper Port, 2 x 1000Mbps Fiber Port, Single-mode 20km, ST Interface, Industrial Temperature -10 ~ 60 °C, Power Supply 12 ~ 52VDC
HES10GA-Z-2SC	Din-rail Unmanaged, 8 x 1000Mbps Copper Port, 2 x 1000Mbps Fiber Port, Multi-Mode 1km, SC Interface, Industrial Temperature -40 ~ 75 °C, Power Supply 12 ~ 52VDC
HES10GA-Z-2ST	Din-rail Unmanaged, 8 x 1000Mbps Copper Port, 2 x 1000Mbps Fiber Port, Multi-Mode 1km, ST Interface, Industrial Temperature -40 ~ 75 °C, Power Supply 12 ~ 52VDC
HES10GA-Z-2SFP	Din-rail Unmanaged, 8 x 1000Mbps Copper Port, 2 x 1000Mbps Fiber Port, SFP Interface, Industrial Temperature -40 ~ 75 °C, Power Supply 12 ~ 52VDC
HES10GA-Z-2SSC	Din-rail Unmanaged, 8 x 1000Mbps Copper Port, 2 x 1000Mbps Fiber Port, Single-mode 20km, SC Interface, Industrial Temperature -40 ~ 75 °C, Power Supply 12 ~ 52VDC
HES10GA-Z-2SST	Din-rail Unmanaged, 8 x 1000Mbps Copper Port, 2 x 1000Mbps Fiber Port, Single-mode 20km, ST Interface, Industrial Temperature -40 ~ 75 °C, Power Supply 12 ~ 52VDC
Other models are available upon request.	