

10-Port 1000M Layer 2 Managed POE Industrial Ethernet Switch

HF-IES-4000-10P8G2SF-P8



Overview:

HF-IES-4000-10P8G2SF-P8 is a managed redundant ring PoE Ethernet switch with 8x10/100/1000Base-T(X) ports with PoE+ function and 2x100/1000Base-X SFP ports with complete support of Ethernet redundancy protocol, HF-Ring (recovery times≤15ms). Equipped with 8X10/100/1000Base-T(X) 30Watts P.S.E.(Power Sourcing Equipment) ports. P.S.E. is a device that will provide power in a PoE setup. It's plug and play, designed in wide operating temperature from -40 °C to 85 °C, with performance of dust/salt fog proof, make it completely suitable for harsh environments.

Feature

- 8 IEEE 802.3af/at PoE compliance 10/100/1000Base-T(X) ports, 2 100/1000Base-X SFP ports
- HF-Ring (recovery times≤15ms), RSTP/STP, and MSTP for network redundancy
- Support IPv4/IPv6
- Support web interface management, CLI-Console/Telnet,SNMPv1/v2/v3, RMON/System syslog
- Support IEEE802.1Q VLAN/MAC based VLAN/Protocol based VLAN/ IP subnet based VLAN/QinQ/GVRP/MVR
- Support Port-based IEEE802.1X/Single and multiple IEEE802.1X/ MAC-based authentication /VLAN Assignment/ IP source guard/RADIUS/ TACACS+/ACL/SSHv2/HTTPS
- Support ITU-T G.8032 Ethernet Ring Protection
- Support IGMP v1/v2/v3 Snooping, MLD v1/v2 Snooping
- Support DHCP Server/Client/Relay/snooping
- Support DNS client/proxy
- Support LACP/Link Aggregation Static
- Support port mirroring, port speed limit, broadcast storm control
- Support two 25G fiber port(optional 1G)
- EMC industrial level 4
- IP40 protection, metal housing

Specification

Physical Port	
100/1000Base-X SFP port	2
10/100/1000Base-T(X)Ports in RJ45	8
Transmission Distance	
Twisted pair	100m(Adopt standard CAT5, CAT5e)
Multi-mode	1310nm 5KM(100M), 850nm 550M(1000M)
Single mode	1310nm 40KM/60KM(100M) 1550nm 60KM/80KM(100M) 1310nm 10KM/40KM(1000M) 1550nm 60KM/80KM(1000M)
Technology	
Standards	IEEE802.3i/802.3u/802.3ab/802.3z/802.3x/802.3ad/802.1p/ 802.1q/802.1d/802.1w/802.1s/802.1ad/802.3az/802.1x/ 802.1ab, IEEE802.3af-2003, IEEE802.3at-2009
Protocol	HF-Ring, IGMP v1/v2/v3 Snooping, GVRP, SNMPv1/2/3, MLD v1/v2 Snooping, DHCP Server/Client/Relay/snooping, RMON, HTTPS, Telnet, System syslog, SSHv2, DNS client/proxy, CLI-Console, Q-in-Q, RADIUS, TACACS+, ACL
MIB	MIB-II, Ethernet-Like MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9
DDM Function	Tx/Rx Optical Power and Temperature control
Flow Control	IEEE802.3x flow control, back pressure flow control
Switch Properties	
Priority Queues	8
Maximum No of Available VLANs	4094
VLAN ID Range	1-4094
MAC Table Size	8K
Packet Buffer Size	4Mbit
Packet Forwarding Rate	14.90Mpps
Switching delay	<5μS
Interfaces	
SFP Port	100/1000Base-X, SFP interface
RJ45 Port	10/100/1000Base-T(X) auto negotiation
802.3af/at PoE Port	Up to 30W on each PoE port, 720mA
Console Port	Micro USB connector, RS232 TX/RX
Alarm Contact	2-pin relay output with current carrying capacity of 0.5A@60V

LED indicators	
Power	Green On - Power on Green Off - Power off
System Indicator	Green On - The system starts up successfully Green Off - The system doesn't start up successfully
POE Indicator	Green On-POE function work successfully Green Off - POE function does not work
10/100/1000Base-T(X) RJ45 Port Indicator	Yellow for port speed: Yellow On —The port works at 1000Mbps. Yellow Off—The port works at 10Mbps or 100Mbps. Green for port Link/Act: Green On and Blinking—Port LINK UP, data is transmitted. Green On – No Blinking –Port Link Up Green Off - Port Link down
1000Base-X SFP Port Indicator	Green for port Link/Act: Green On and Blinking—Port Link Up, data is transmitted. Green On—Port Link Up Green Off—Port Link Down
Power	
Power backup	Optional redundant dual inputs
Input Voltage	48VDC
Full Load	10W
Overload Current Protection	Yes
Reverse Polarity Protection	Yes
Connection	7-Pin terminal block
Environmental	
Storage Temperature	-40 to 85°C (-40 to 185 °F)
Operating Temperature	-40 to 85°C (-40 to 185 °F)
Operating Humidity	5% to 95% Non-condensing
Physical Characteristic	
Enclosure	Metal housing with IP40 Protection
Dimension (W x D x H)	85×105×155mm
Weight(kg)	1.0kg
Installation	Din-Rail mounting, Wall mounting
Warranty	5 years

Measure(Unit/mm)

