



HGW-802SM-PSE

8 x 10/100/1000Base–Tx and 2 x 1000Base-X SFP Managed Industrial PoE Switch

The HGW-802SM-PSE is a 10 port Gigabit Ethernet managed Industrial PoE Switch 8x10/100/1000Base-Tx & 2x 100/1000Base-X ports, hardened for extreme operating temperatures: -40 to +75 Celsius. The managed switch supports a variety of Ethernet functions, including STP/RSTP/MSTP and multiple sub-Ring for redundant cabling, layer 2 Ethernet IGMP, VLAN, QoS, Security, bandwidth control, port mirroring and is housed in IP40 rated rugged metal housing designed to operate in difficult conditions, including mechanically and electrically extreme environments. The HGW-802SM-PSE model provides a total of 240W of PoE power with up to 30W on each copper port. All Industrial switches have strong surge protection (4kV~8kV) per port, depending on models and strict compliance with IEC and EN standards for industrial grade equipment.

Features

- DC power input block 10-60V and secondary DC5V jack
- Extreme operating temperature: -40 to +75 Celsius
- Rugged IP40 rated metal casing with DIN rail bracket
- 8x 10/100/1000Base-T RJ-45 and 2x 100/1000Base-X SFP Fiber
- Reversed power polarity protection
- STP, RSTP, MSTP for redundant cabling
- DHCP Server/Client/Relay/Snooping
- QoS, CoS, bandwidth control for Ingress and Egress, Storm Control
- Dynamic IEEE 802.3ad LACP Link Aggregation, Static Link Aggregation
- Supports 6kV surge protection per port on all TP ports
- 240W total PoE power budget: 30W 802.3af/at per port
- Supports IEEE 802.1Q Tag VLAN and port VLAN
- IGMP snooping V1/V2/V3, IGMP Filtering/ Throttling, IGMP query
- Port based and MAC based IEEE802.1X, RADIUS, ACL
- Software upgrade via TFTP and HTTP
- Port mirroring, System log, DNS, SNTP, LLDP
- Web based management, SNMP v1/v2, Telnet

Specifications

IEEE Standard	IEEE 802.3 10Base-T Ethernet	Alarm Relay Contact		
	IEEE 802.3u 100Base-TX and 100Base-FX Fast Ethernet	Removable		
	IEEE 802.3ab 1000Base-T and 1000Base-X Gigabit Eth. IEEE 802.3x Flow Control and Back Pressure	Terminal Blo		
Switch Architecture	Back-plane (Switching Fabric): 20 Gbps	Operating Temperature		
Data Processing	Store and Forward	Operating		
Flow Control	IEEE 802.3x flow control, back pressure flow control	Humidity		
Provides Broadcast Storm Protection	Present	Storage Temperature		
MAC Address Table	4K	Housing		
Packet Buffer Size	2MB	Dimensions		
Ports	8 x RJ-45 10/100/1000Base-Tx	Weight		
	2 x 100/1000Base-X SFP slot 10/100/1000Base-TX auto negotiation speed,	Installation		
	Auto MDI/MDI-X function, Full/Half duplex	Mounting		
Network Cable	10Base-T: 2-pair UTP/STP Cat.5 cable	EMI		
	100Base-TX: 2-pair UTP/STP Cat. 5 cable			
	1000Base-T: 4-pair UTP/STP Cat. 5e cable	EMS		
	EIA/TIA-568 100-ohm (100m)			
Protocols	CSMA/CD			
LED	Per unit: PWR (Green) LNK/ACT (Green - Fiber port status and activity)			
	Per port: Link/Active (Green), Speed/100 (Yellow)			
Reverse Polarity Protection	Present	Traffic contro		
Overload Current	Present	Rail Traffic		
Protection	Present	Shock		
Power Supply	Redundant Dual DC48V Input power (Removable Block)	Freefall		
PoE Specs	D-F : DCF -d	Vibration		
•	PoE+ PSE device: IEEE 802.3af/at, up to 30W per port 240W total PoE budget	MTBF		
Power	<250W, PoE available budget is 240W	Warranty		
Consumption				

Alarm Relay Contact	Relay outputs with current carrying capacity of 1 A @24VDC, NC		
Removable Terminal Block	Provide 2 Redundant power, Alarm relay contact, 6 Pin		
Operating Temperature	-40 ~ 75°C		
Operating Humidity	5% to 95% (Non-condensing)		
Storage Temperature	-40 ~ 85°C		
Housing	Rugged Metal, IP40 Protection		
Dimensions	108 x 49 x 138mm (D x W x H)		
Weight	0.65kg		
Installation Mounting	DIN Rail mounting or wall mounting		
EMI	FCC Part 15 Subpart B Class A, CE EN 55022 Class A		
	EN61000-6-4 – Emission for industrial environment		
EMS	EN61000-6-2 – Immunity for Industrial environment		
	EN61000-4-2 (ESD) Level 3, Criteria B		
	EN61000-4-3 (RS) Level 3, Criteria A		
	EN61000-4-4 (Burst) Level 3, Criteria A		
	EN61000-4-5 (Surge) Level 3, Criteria B		
	EN61000-4-6 (CS) Level 3, Criteria A		
	EN61000-4-8 (Magnetic Field) Level 3, Criteria A		
Traffic control	NEMA-TS2		
Rail Traffic	EN50121-4		
Shock	IEC 60068-2-27		
Freefall	IEC 60068-2-32		
Vibration	IEC 60068-2-6		
MTBF	120,000Hrs		
Warranty	3 years		





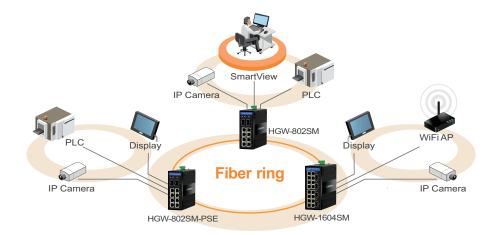
Gigabit Ethernet Managed Industrial PoE Switch



Software Specifications

Topology			
VLAN	IEEE 802.1q VLAN,up to 4094 802.1Q VLAN VID	DHCP	Server, Client, Relay, Snooping
	IEEE 802.1q VLAN,up to 4094 Groups	IP Source Guard	
	IEEE 802.1ad Q-in-Q	Port Mirroring	
	MAC-based VLAN,up to 256 entries	Event Syslog	Syslog server (RFC3164) (Support 1 server)
		Warning Message	System log, alarm relay
Link Aggregation (Port Trunk)	Static (Hash with SA, DA, IP, TCP/UDP port), up to 5 trunk group	DNS	Client, Proxy
	Dynamic (IEEE 802.3ad LACP), up to 5 trunk group	NTP	
panning Tree	IEEE802.1d STP	LLDP (IEEE	Link Layer Discovery Protocol
	IEEE802.1w RSTP	802.1ab)	LLDP-MED
	IEEE802.1s MSTP	IP Multicasting Features	
Multiple Ring	supports Sub-Ring type	IGMP / MLD Snooping	IGMP Snooping v1, v2, v3 / MLD Snooping v1, v2
	Recovery time <10ms		Port Filtering Profile
	The maximum number of devices allowed in a Ring		Throttling, Fast Leave
oop Protection	supported ring is 250. Present		Maximum Multicast Group: up to 1022 entries
oop Protection Present			Query / Static Router Port
2oS Features		Security Features	
Class of Service	IEEE802.1p 8 active priorities queues for per port	IEEE 802.1X	Port-Based
Traffic	IEEE802.1p based CoS		MAC-Based
Classification QoS	IP Precedence based CoS	ACL	Number of rules : up to 256 entries
	IP DSCP based CoS		for L2 / L3 / L4
	QCL(QoS Control List): Frame Type, Source/	RADIUS authentication & accounting	
	Destination MAC, VLAN ID, PCP, DEI	User Name Password	Local Authentication
	QCE(QoS Control Entry): Protocol, Source IP, IP Fragment, DSCP, TCP/UDP port number	Authentication	Remote Authentication (via RADIUS)
Bandwidth Control for Ingress	Rate in steps :1 kbps / Mbps	Management Interface Access	Web, Telnet / RS-232 console
	Range: 100 kbps to 1Gbps	Filtering	
	Rate Unit : bit	Management Features	
Bandwidth	Rate in steps: 1 kbps / Mbps	Web Based Management	
Control for Egress	Range: 100 kbps to 1Gbps	Telnet	Server
	Rate Unit : bit	SNMP	V1, V2
	Per queue / Per port shaper	SW &	TFTP, HTTP
Storm Control	for Unicast, Broadcast, Multicast	Configuration Upgrade	firmware upgrade function

Fiber Ring Application



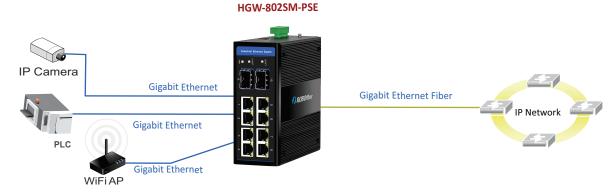
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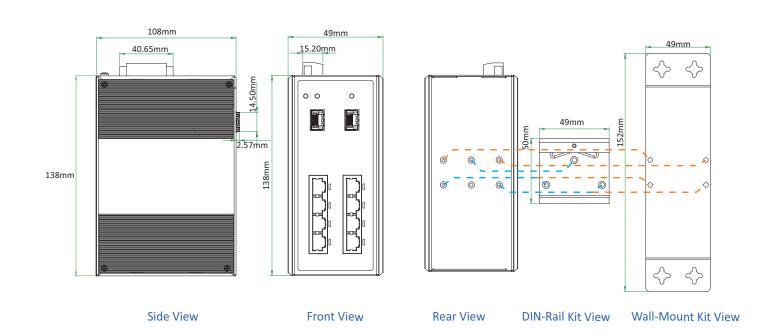


Fiber Access Application



HGW-802SM-PSE Gigabit Ethernet Managed PoE Switch Application

Dimensions



Ordering Information

Model Name	Description
HGW-802SM-PSE	8x 10/100/1000Base-Tx to 2x 100/1000Base-X SFP Managed Industrial PoE Switch Extreme Temp. (-40~75 Celsius), 240W for PoE/PoE+



