



HGW-2404SM-PSE

24 x 10/100/1000Base–Tx and 4 x 1000Base-X SFP Managed Industrial PoE+ Switch

The HGW-2404SM-PSE is a 28 port Gigabit Ethernet managed Industrial PoE Switch 24x10/100/1000Base-Tx & 4x 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-2404SM-PSE model provides a total of 480W 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

- redundant DC input block 48-52V
- Extreme operating temperature: -40 to +75 Celsius
- Rugged IP40 rated metal casing with DIN rail bracket
- 24x 10/100/1000Base-T RJ-45 and 4x 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
- 480W total PoE power budget with max. 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 TPHT
- 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 IEEE 802.3ab 1000Base-T and 1000Base-X Gigabit Eth. IEEE 802.3x Flow Control and Back Pressure	Removable Terminal Bloo	
Switch Architecture	TEEL COLION FOR CONTROL WING DUCK F F COOKING	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	8K	Housing	
Packet Buffer Size	4MB	Dimensions	
Ports	24 x RJ-45 10/100/1000BasexT	Weight	
	4 x 100/1000Base-X SFP slot	Installation	
	10/100/1000Base-TX auto nego a on speed, Auto MDI/MDI-X func on, 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. 5 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 Protection	Present	Rail Traffic Shock	
Power Supply	Redundant Dual DC48V Input power (Removable Block)		
		Vibration	
PoE Specs	PoE+ PSE device: IEEE 802.3af/at, up to 30W per port 480W total PoE budget	MTBF	
Power	<500W, PoE available budget is 480W	Warranty	
Consumption		vvaiianty	

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	152 x 88 x 122mm (D x W x H)
Weight	1.35kg
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





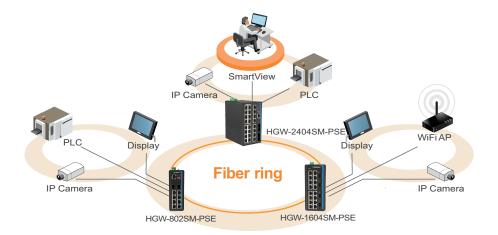
Gigabit Ethernet Managed Industrial PoE Switch



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	· · · · · ·
Spanning 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
Loop Protection	supported ring is 250. Present		Maximum Multicast Group: up to 1022 entries
LOOP FTOLECTION	Present		Query / Static Router Port
QoS 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	ν	
	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 Feat	ures
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



HGW-2404SM-PSE Gigabit Ethernet Managed PoE Switch Application

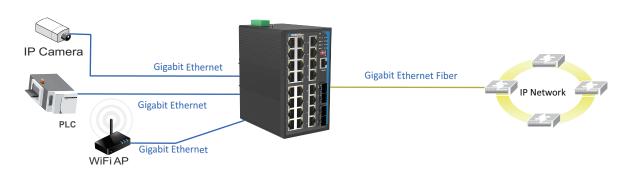






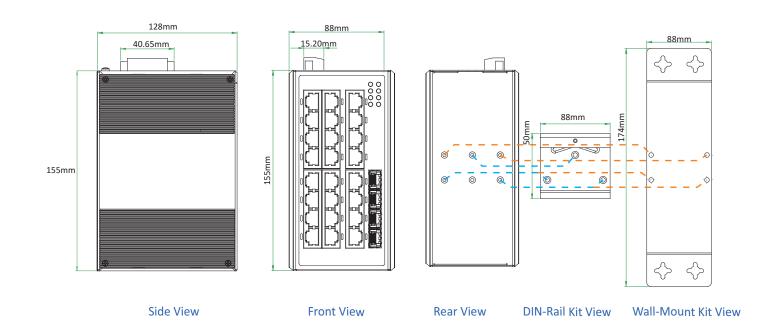
Fiber Access Application

HGW-2404SM-PSE



HGW-2404SM-PSE Gigabit Ethernet Managed PoE Switch Application

Dimensions



Ordering Information

Model Name	Description
HGW-2404SM-PSF	24x 10/100/1000Base-Tx to 4x 100/1000Base-X SFP Managed Industrial PoE Switch Extreme Temp. (-40~75 Celsius). 480W for PoE/PoE+



