



## SWM-H-24GPS series

Hardened Managed 28-Port Gigabit PoE Ethernet Switch



### Product Highlights

#### High Bandwidth and Versatility

- 24 10/100/1000BASE-T(X) ports for high bandwidth connections
- Up to 4 1G/10G SFP+ uplink ports for fiber connections
- Full capacity switching running at full duplex

#### Hardened-Grade for Non-Ventilated & Harsh Environments

- Wide operating temperature range -40 to 75°C (-40 to 167°F)
- Fanless operation
- High impact, thermal shock, and electrical noise resistance

#### Lite Layer 3 Functionality

- Static routing, RIP v1/v2, and OSPF
- Redundancy with VRRP
- Easy to use GUI

#### PoE Features

- IEEE 802.3bt with 60W; 720W power budget
- Long distance PoE up to 250m (820ft)
- PoE watchdog monitors status of connected PoE devices

#### Management/Security Features

- Port control
- 802.1x port-based network access control and remote authentication through RADIUS
- Configure and monitor with eVue™ and eLite™

### Overview

CXR's SWM-H-24 GPS series is a hardened managed PoE Ethernet switch platform. Equipped with 24 gigabit PoE ports along with 720W total PoE power budget, IEEE 802.3bt protocol support and 4 10-gigabit SFP+ ports, the SWM-H-24 GPS series provides flexibility, speed, and reliability for networks in urban infrastructure, transportation, security, and other areas where connectivity is crucial.

# Software Features

<b>Interface</b>	+
CLI, Telnet, Web GUI	
<b>Management</b>	+
Firmware upgrade	
Configuration backup	
DHCP Server/Client	
RMON (Remote Monitoring)	
Port Mirroring	
NTP (Network Time Protocol) synchronization	
LLDP (Link Layer Discovery Protocol)	
IPv4/IPv6	
SNMP v1/v2c/v3	
<b>Security</b>	+
MAC Address filtering	
Enable/Disable port	
Storm control	
System logging	
IEEE 802.1x LAN Access control	
Remote authentication through RADIUS and TACACS+	
Complex password support	
Multi-user login and privileged access management	
SSH for CLI and Telnet security	
SSL and HTTPS for web security	
ACL (Access Control List, up to 4096 entries)	
<b>Quality of Service (QoS)</b>	+
Priority Queues: 8 queues per port	
Traffic classification based on IEEE 802.1p CoS (Cost of Service), DSCP (Differentiated Services Code Point), WRR (Weighted Round Robin), and strict mode	
Rate Limiting (Ingress/Egress)	

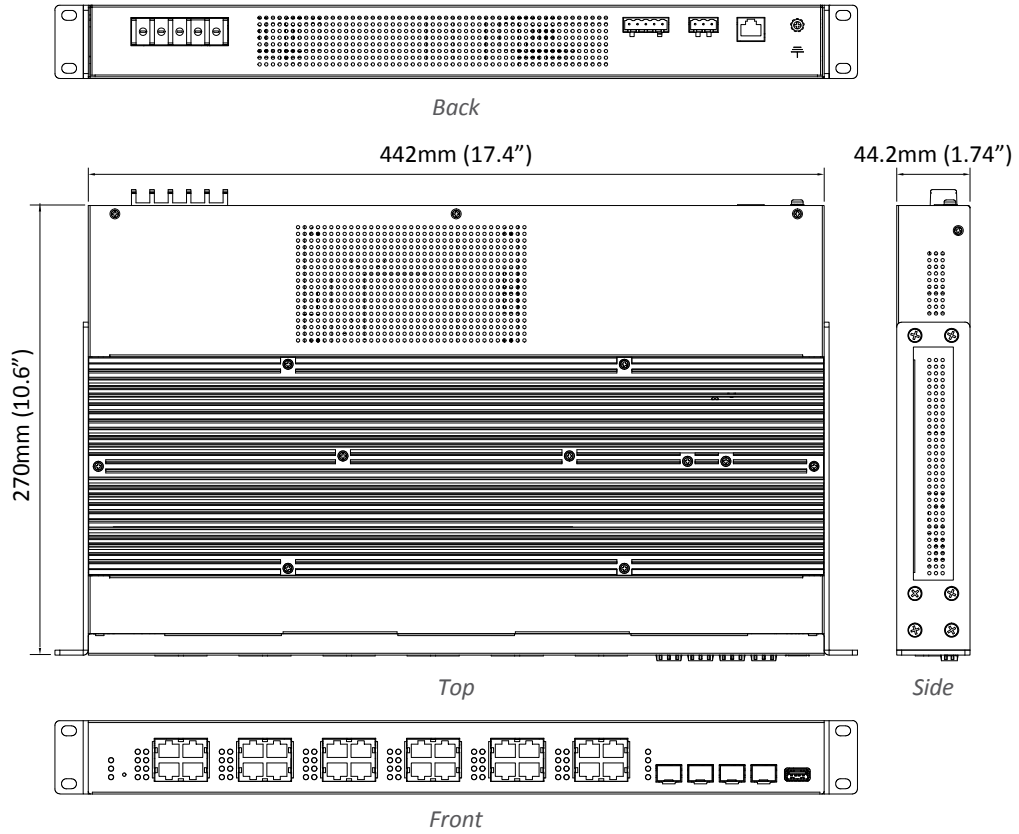
<b>Layer 2 Features</b>	+
Auto-negotiation for port speed and duplex	Flow Control IEEE 802.3x full duplex mode Back-pressure half duplex mode
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Redundant Protocols	IEEE 802.1D STP IEEE 802.1w RSTP IEEE 802.1s MSTP EtherWAN's Alpha-Ring network fault recovery
VLANs	IEEE 802.1Q Tag VLANs GVRP GMRP
Link Aggregation	Static Trunk (4 groups) IEEE 802.3ad LACP
IGMP Snooping v1/v2/v3	
<b>Layer 3 Features</b>	+
IP Packet Routing	Maximum number of routes in hardware: 64 entries Static Routing RIP v1/v2 OSPF v2
Routing Redundancy	VRRP
<b>Software Properties and Performance</b>	+
Switching Fabric	SWM-H-24GPS-4USF: 56Gbps SWM-H-24GPS-4SFPP: 128Gbps
Forwarding Rate	95.23Mpps
Max VLANs	256 (4096 VID)
Jumbo Frame Size	9KB
MAC Table Size	16K
Packet Buffer Memory	12M bits

# Hardware Specifications

Interface		+
Ethernet	24 x 10/100/1000BASE-T(X) 4 x 1G/10G SFP+	
Console	1 x RJ45	
Config Backup	1 x USB (Type A Connector)	
Digital Input	2 x Digital Input Wet Contact: 0-3V for State 0 13-30V for State 1 Max input current: 8mA Dry Contact: Logic Level 1-Close to GND Logic Level 0-Open	
Alarm Contact	1 x Relay output, current capacity 0.5A/48VDC	
LED Indicators	Per Unit: Power 1, Power 2, Alarm Per Port: Link/Activity (Green) Per PoE Port: PoE Status (Orange)	
Technology		+
Standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX/100BASE-FX IEEE 802.3ab 1000BASE-T IEEE 802.3ae 10Gigabit Ethernet IEEE 802.3ad link aggregation control IEEE 802.3z 1000BASE-SX/1000BASE-LX IEEE 802.3x full duplex and flow control IEEE 802.1D STP IEEE 802.1p QoS IEEE 802.1Q Tag VLANs IEEE 802.1s MSTP IEEE 802.1w RSTP IEEE 802.1x PNAC IEEE 802.1ab LLDP IEEE 802.3af/at/bt Power over Ethernet	
Forward/Filtering Rate	14,800pps for 10Mbps 148,810pps for 100Mbps 1,488,100pps for 1000Mbps 14,880,952pps for 10Gbps	
Processing Type	Store-and-forward Auto-negotiation Half-duplex back-pressure and full-duplex flow control Auto MDI/MDIX	
System Memory	2Gb DDR3 SDRAM	
Flash Storage	1Gb	
Power		+
Input	52-57VDC Redundant (Terminal block)	
Power Consumption	25.12W@52VDC, 26.65W@57VDC (without PoE)	
PoE Modes	802.3af/at Mode A: Pins 1/2(+), 3/6(-) 802.3af/at Mode B: Pins 4/5(+), 7/8(-) 802.3bt (60W): Mode A & B, Pins 1/2(+), 3/6(-), 4/5(+), 7/8(-)	
PoE Power Output	Port: Up to 60W/port Power Budget: 720W	
Protection	Reverse Polarity Protection	

Physical		+
Casing Material	Metal	
IP Rating	IP30	
Dimensions	442 x 270 x 44.2mm (W x D x H) 17.4" x 10.6" x 1.74"	
Weight	5.1Kg (11.2lbs)	
Installation Type	Rack mounting	
Environmental		+
Operating Temp.	-40 to 75°C (-40 to 167°F)	
Storage Temp.	-45 to 85°C (-49 to 185°F)	
Relative Humidity	5% to 95% (non-condensing)	
Regulatory		+
ISO	Manufactured in ISO-9001 facility	
EMI	FCC Part 15B Class A VCCI Class A EN 61000-6-4	
EMS	EN 61000-4-2 (ESD) EN 61000-4-3 (Radiated RFI) EN 61000-4-4 (Burst) EN 61000-4-5 (Surge) EN 61000-4-6 (Induced RFI) EN 61000-4-8 (Magnetic field)	
Safety	UL 62368	
Vibration	IEC 60068-2-6	
Shock	IEC 60068-2-27	
Free Fall	FED STD 101C Method 5007.1	
Industrial	EN 50121-4	
What's Included		+
Device	Ethernet Switch	
Cables	1 Console Cable	
Installation	Mounting brackets, screws	
Documentation	Quick install guide	

# Dimensions



# Ordering Information

## Model

<b>SWM-H-24GPS-4SFPP</b>	24-port 10/100/1000BASE-T(X) PoE + 4-port 1G/10G SFP+
<b>SWM-H-24GPS-4USF</b>	24-port 10/100/1000BASE-T(X) PoE + 4-port 1000BASE SFP