EHG2408 Series

8-Port Industrial Smart Secure Lite-Managed Gigabit Switch

FEATURE HIGHLIGHTS

- 6 X 10/100/1000 BASE-T(X) RJ45 ports
- 2 x 10/100/1000 BASE-T(X) RJ45 ports or 2 x 100/1000 BASE-X SFP slots with MACsec encryption support
- 99% of throughput guaranteed no additional latency
- Ideal for a plug-and-play local area network protection. Embedded MACsec Key Agreement offers high-protection with no configuration.
- IP30 aluminum housing, DIN-Rail or Wall mount
- Prioritizes Profinet Packets according to 802.1P
- Operational between -20°C~70°C

PRODUCT DESCRIPTION

As more and more devices come online and networks open to the internet to make operational and communication gains with IIoT-based services, security has become paramount for ensuring that your network's traffic stays between your devices, with network vulnerabilities including unauthorized data access and unauthorized network commands, risking loss of data and operational downtimes.

Featuring 6 x Gigabit RJ45 ports and the choice between 2 x Secure Gigabit RJ45 ports or 2 x Secure Gigabit SFP uplink slots, ATOP's EHG2408 switch series provides a plug-and-play solution for fast, reliable network switching that offers increased network security through MACsec encryption.

Providing point-to-point security on Ethernet links between nodes, MACsec uses GCM-AES to ensure the integrity of all network traffic. This means it can secure a network from a whole host of security threats, including intrusion, man-in-the-middle, masquerading, passive wiretapping, and playback attacks. And because MACsec encryption is hardware-based, there is no added latency.

With its modern, slim, and flat design to minimize surface area usage, the EHG2408 series is ideal for demanding industrial applications that require compact solutions while delivering high network performance. Supporting a wide operating temperature range of -20°C to 70°C and being compliant with essential sections of EN 60950, UL/IEC 60950, EN/IEC(CB)/UL62368-1, and MIL-STD-810F, the EHG2408 switch series is a powerful compact device that can perform under a variety of environmental conditions, such as power input voltage, shock, drop and vibration.

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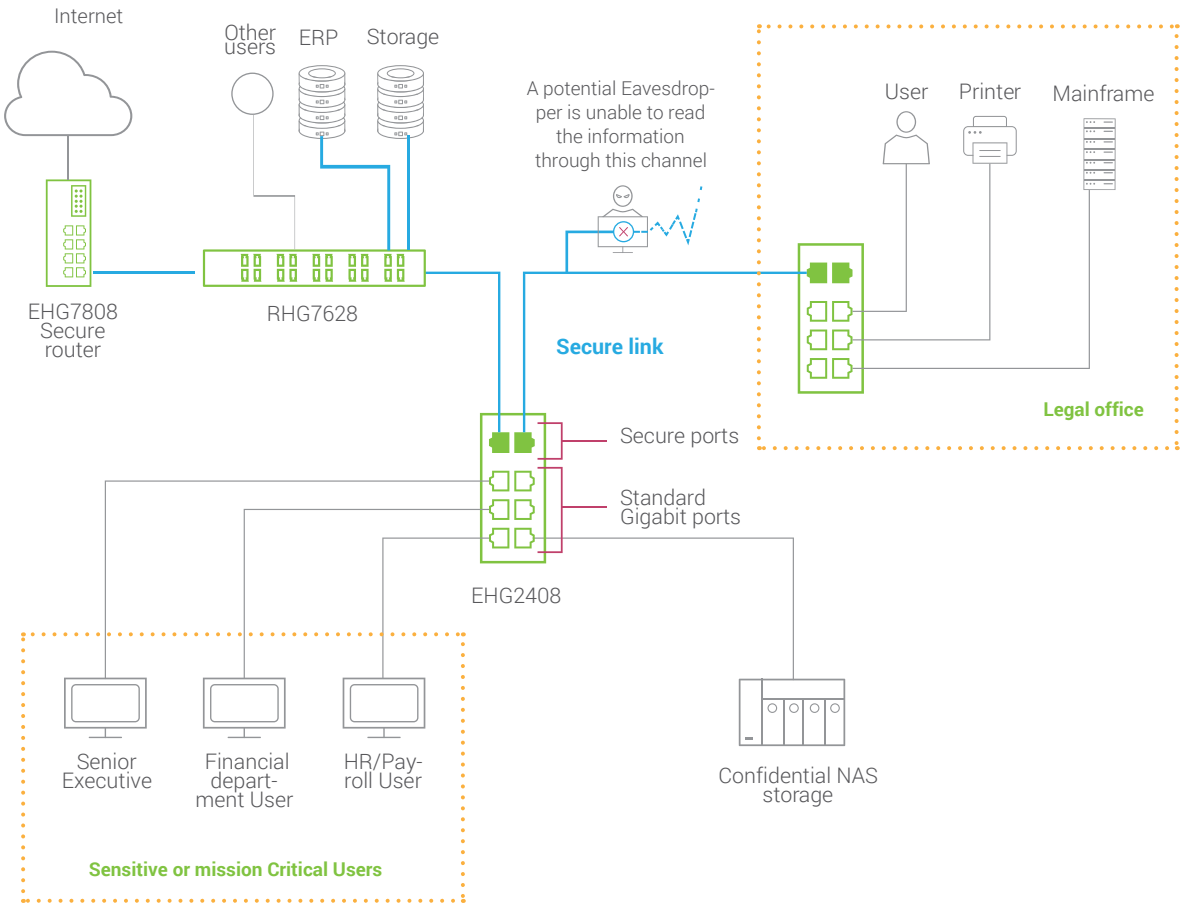
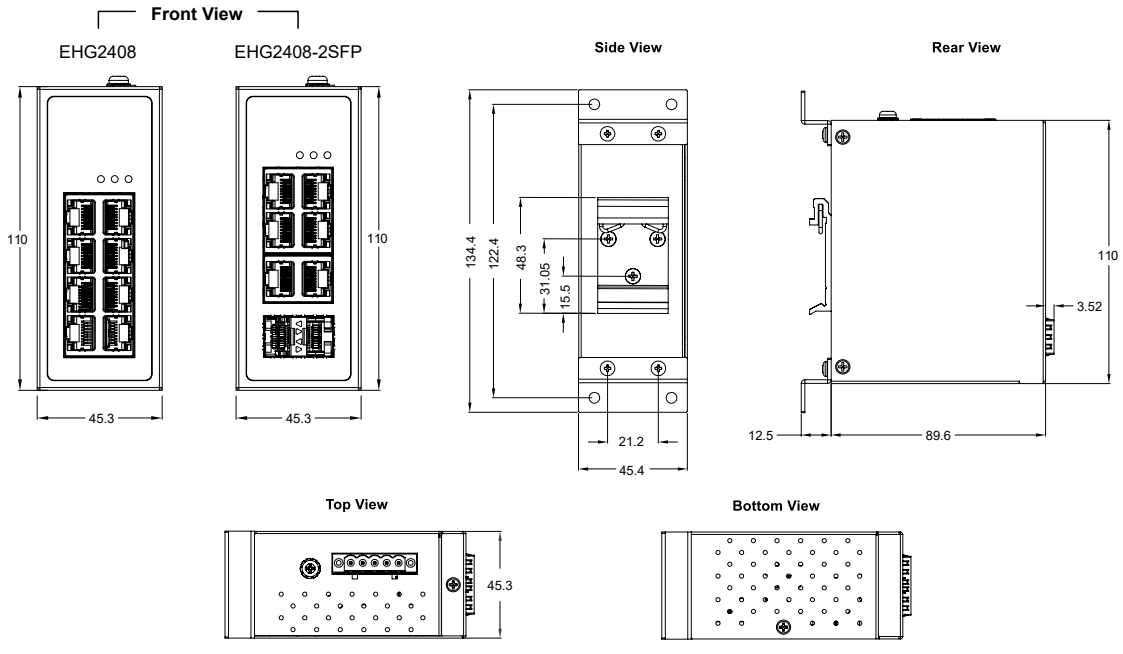


DIMENSIONS & LAYOUT



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SPECIFICATIONS

Technical Specifications	
Model Name	EHG2408 Series
Switch Properties	
Processing Scheme	Store-and-forward
MAC Address Table	16 k
Packet Buffer Size	2 Mbit
Jumbo Frame	10 kByte
Ethernet	
Standards	IEEE 802.3 for 10 BaseT IEEE 802.3u for 100 Base T(X) IEEE 802.3u for 100 Base F(X) IEEE 802.3ab for 1000 Base T(X) IEEE 802.3ab for 1000 Base T IEEE 802.3z for 1000 Base-X IEEE 802.3x for Flow Control, back pressure flow control IEEE 802.3az for Energy Efficient Ethernet IEEE 802.1q for VLAN tagging (Prioritization of Profinet Packets) IEEE 802.1p for CoS (Prioritization of Profinet Packets) IEEE 802.1ae for MACsec
Flow Control	Back pressure and pause frame-based flow control schemes
Transmission Rate	RJ45: 10/100/1000 Mbps SFP: 100/1000 Mbps
Auto MDI/MDI-X	Yes
Power	
Input Voltage	9~48 VDC, dual power input
Input Current (System)	0.64 A Max
Power Consumption (System)	5.8 W Max
Power input	5-pin Terminal block
LED	
Indication	P1, P2, Fault
Physical Characteristics	
Housing	IP30 aluminum housing
Dimension (W x H x D)	45.3mm x 89.6mm x 110mm
Weight	400g
Installation	DIN-Rail , Wall mount (optional kit)
Environmental Limits	
Operating Temperature	-20°C to +70°C (-4°F to +158°F)
Storage Temperature	-40°C to +85°C (-40°F to +185°F)
Ambient Relative Humidity	5% to 95%, 55°C (Non-condensing)

REGULATORY APPROVALS

Regulatory Approvals				
Safety	EN60950-1:2006, UL/IEC(CB) 60950-1:2006, UL 62368-1 / IEC 62368-1 / EN62368-1			
EMC	FCC Part 15, Subpart B, Class A, Class B EN 55032:2015 + AC:2016 (Class B, EN55024), EN 61000-6-2, EN 61000-6-4,			
Test	**Item**		**Value**	**Level**
IEC 61000-4-2	ESD	Contact Discharge Air Discharge	±8KV ±15KV	4 4
IEC 61000-4-3	RS	80-1000MHz 1.4-2.0GHz 2.0-2.7GHz	10(V/m) 3(V/m) 1(V/m)	3 3 3
IEC 61000-4-4	EFT	AC Power Port DC Power Port Signal Port	±2.0kV ±2.0kV ±1.0kV	3 3 3
IEC 61000-4-5	Surge	DC Power Port DC Power Port Signal Port Signal Port	Line-to Line±1.0kV Line-to Earth±2.0kV Line-to Line±1.0kV Line-to Earth±2.0kV	3 3 3 3
IEC 61000-4-6	CS	0.15-80MHz	10V rms	3
IEC 61000-4-8	PFMF	Enclosure	30A/m	3
IEC 61000-4-11	DIP	AC Power Port	-	-
Shock Drop Vibration	MIL-STD-810F Method 516.5, IEC 60068-2-27 MIL-STD-810F Method 516.5, IEC 60068-2-32 MIL-STD-810F Method 514.5 C-1 & C-2, IEC 60068-2-6			
RoHS II	Yes			
MTBF	25.83 years (@25 degrees C, according to MIL-HDBK-217F)			
Warranty	5 years			

ORDERING INFORMATION

Ordering information

Model name	Part Number	Description
EHG2408	1P1EHG24080001G	8*10/100/1000M RJ45,2*MACSec
EHG2408-2SFP	1P1EHG24080002G	6*10/100/1G RJ45,2*1G SFP/MACSec

Optional Accessories

Model name	Part Number	Description
Wall Mount set	701000000000056G	45.4 x22.8 x1.5 Aluminum wall mount with screw
AXFD-1314-0523	522AXFD1314001G	SFP Transceiver;155Mbps, Multi-mode;1310nm;2km; -40°C to +85°C, DDMI
AXFD-1314-0553	522AXFD1314011G	SFP Transceiver;155Mbps, Single-mode;1310nm;30km; -40°C to +85°C, DDMI
AXGD-5854-0513	522AXGD5854001G	SFP Transceiver, 1250Mbps, 850nm, Multi-mode, 550m, 3.3V, -40°C to +85°C, DDMI
AXGD-1354-0523	522AXGD1354001G	SFP Transceiver, 1250Mbps, 1310nm, Multi-mode, 2km, 3.3V, -40°C to +85°C, DDMI
AXGD-1354-0533	522AXGD1354011G	SFP Transceiver, 1250Mbps, 1310nm, Single-mode, 10km, 3.3V, -40°C to +85°C, DDMI
AXGD-3354-0593	522AXGD3354001G	SFP Transceiver, 1250Mbps, 1310nm, Single-mode, 40km, 3.3V, -40°C to +85°C, DDMI
SDR-75-24	50500752240001G	AC 88~264V to 24V DC 3.2A; 75W