

# RELIABLE SECURE CONNECTIVITY

**XEG2408 Series**

**8-Port Industrial Smart Secure Lite-Managed Gigabit Switch**





## XEG2408 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 802.1q
- Operational between -20°C~70°C



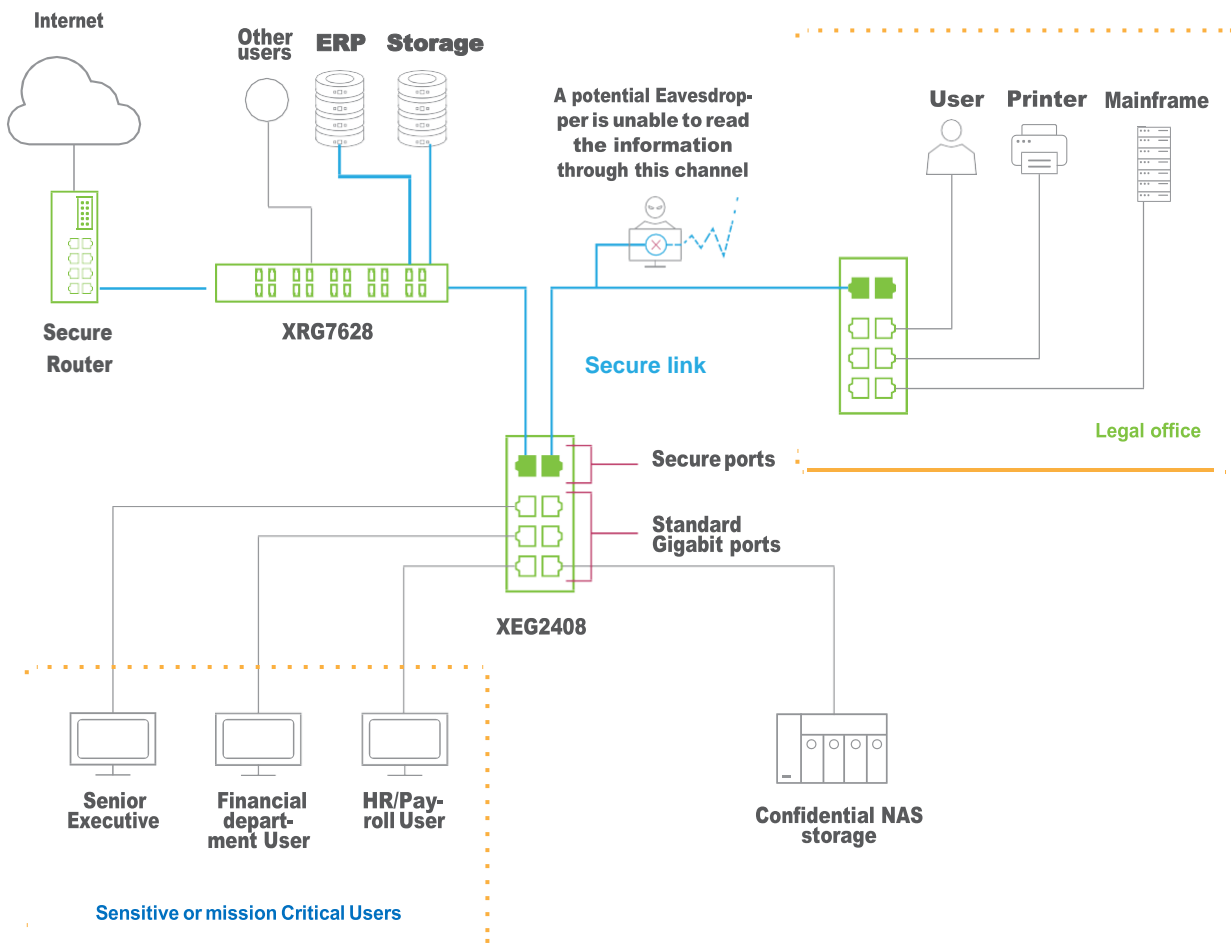
### PRODUCT DESCRIPTION

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.

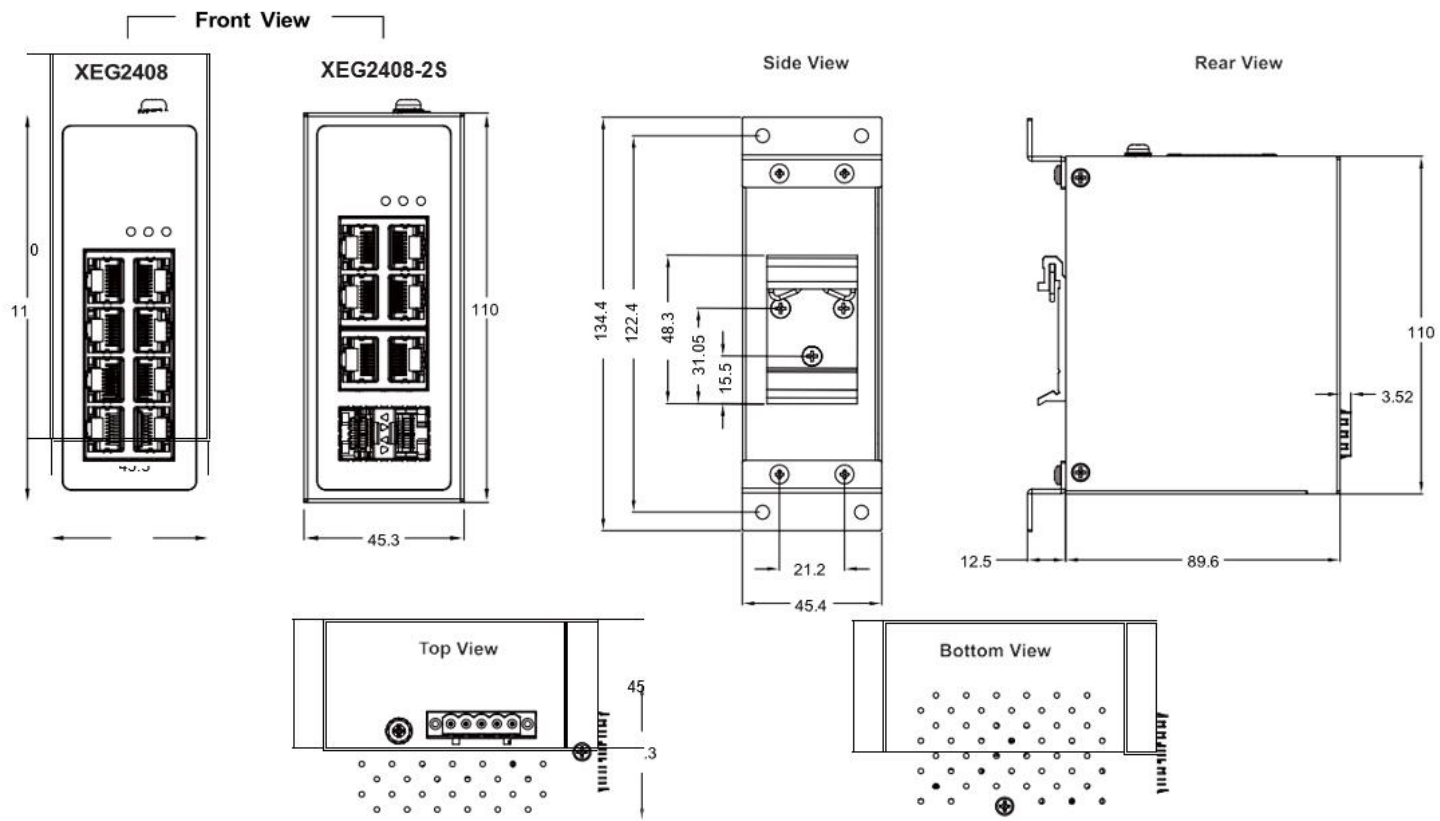
Featuring 6 x Gigabit RJ45 ports and the choice between 2 x Secure Gigabit RJ45 ports or 2 x Secure Gigabit SFP uplink slots, AGATEL's XEG2408 switch series provides a plug-and-play solution for fast, reliable network switching that offers increased network security through MACsec encryption.

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 XEG2408 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 XEG2408 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.



**DIMENSIONS & LAYOUT**





## SPECIFICATIONS

<b>Model Name</b>	XEG2408 Series
<b>Switch Properties</b>	
<b>Processing Scheme</b>	Store-and-forward
<b>MAC Address Table</b>	16 k
<b>Packet Buffer Size</b>	2 Mbit
<b>Jumbo Frame</b>	10 kByte
<b>Ethernet</b>	
<b>Standards</b>	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
<b>Flow Control</b>	Back pressure and pause frame-based flow control schemes
<b>Transmission Rate</b>	RJ45: 10/100/1000 Mbps SFP: 100/1000 Mbps
<b>Auto MDI/MDI-X</b>	Yes
<b>Power</b>	
<b>Input Voltage</b>	9~48 VDC, dual power input
<b>Input Current (System)</b>	0.64 A Max
<b>Power Consumption (System)</b>	5.8 W Max
<b>Power input</b>	5-pin Terminal block
<b>LED</b>	
<b>Indication</b>	P1, P2, Fault
<b>Physical Characteristics</b>	
<b>Housing</b>	IP30 aluminum housing
<b>Dimension (W x H x D)</b>	45.3mm x 89.6mm x 110mm
<b>Weight</b>	400g
<b>Installation</b>	DIN-Rail , Wall mount (optional kit)
<b>Environmental Limits</b>	
<b>Operating Temperature</b>	-20°C~70°C (-4°F~158°F)
<b>Storage Temperature</b>	-40°C~85°C (-40°F~185°F)
<b>Ambient Relative Humidity</b>	5%~95%, 55°C (Non-condensing)





## REGULATORY APPROVALS

Environmental Limits	
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,

EMS Tests				
Test	Description		Test Levels	Severity Levels
IEC 61000-4-2	ESD	Contact Discharge	±8KV	4
		Air Discharge	±15KV	4
IEC 61000-4-3	RS	80-1000MHz	10 V/m	3
		1.4-2.0GHz	3(V/m)	3
		2.0-2.7GHz	1(V/m)	3
IEC 61000-4-4	EFT	AC Power Port	±2.0KV	3
		DC Power Port	±2.0KV	3
		Signal Port	±1.0KV	3
IEC 61000-4-5	Surge	DC Power Port	Line-to Line±1.0kV	3
		DC Power Port	Line-to Earth±2.0kV	3
		Signal Port	Line-to Line±1.0kV	3
		Signal Port	Line-to Earth±2.0kV	3
IEC 61000-4-6	CS	0.15-80MHz	10 Vrms	3
IEC 61000-4-8	PFMF	(Enclosure)	30A/m	3
IEC 61000-4-11	DIP	AC Power Port	-	-
Shock	MIL-STD-810F Method 516.5, IEC 60068-2-27			
Drop	MIL-STD-810F Method 516.5, IEC 60068-2-32			
Vibration	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	Unencrypted RJ45 ports	MACsec encrypted ports RJ45 ports	SFP slots
<b>XEG2408</b>	<b>6</b>	<b>2</b>	<b>-</b>
<b>XEG2408-2S</b>	<b>6</b>	<b>-</b>	<b>2</b>

Optional Accessories	
Model name	Description
<b>Wall Mount set</b>	<b>45.4 x22.8 x1.5 Aluminum wall mount with screw</b>
<b>XTR-38-FM-2K</b>	<b>SFP Transceiver, 155Mbps, 1310nmLED, Multi-mode, 2km, 3.3V, -40~85°C</b>
<b>XTR-38-FS-30K</b>	<b>SFP Transceiver, 155Mbps, 1310nmFP, Single-mode, 30km, 3.3V, -40~85°C</b>
<b>XTR-28-SX-550M</b>	<b>SFP Transceiver, 1250Mbps, 850nmVCSEL, Multi-mode, 550m, 3.3V, -20~85°C</b>
<b>XTR-38-SX-2K</b>	<b>SFP Transceiver, 1250Mbps, 1310nmFP, Multi-mode, 2km, 3.3V, -40~85°C</b>
<b>XTR-38-LX-10K</b>	<b>SFP Transceiver, 1250Mbps, 1310nmFP, Single-mode, 10km, 3.3V, -40~85°C</b>
<b>XTR-38-LX-30K</b>	<b>SFP Transceiver, 1250Mbps, 1310nmDFB, Single-mode, 30km, 3.3V, -40~85°C</b>
<b>XDP-75-24</b>	<b>AC 88~264V to 24V DC 3.2A; 75W</b>





## WHO WE ARE

Built on 20 years of experience in designing and manufacturing industrial networking products, **Agatel** was established from the UK to serve the infrastructure and industrial sectors in EMEA markets with reliable connectivity for mission-critical systems in demanding environments.

Experienced in hardware and software design and integration, we produce high-quality yet cost-effective industrial networking and communication products with great customization capabilities and robust implementations, equipping our customers for reliable secure industrial networks.



## WHAT WE OFFER

The needs of our customers' industry are different from those of corporate IT environments – industrial operating environments are tough and the impact of failure in the field can lead to business threatening situations, hence our products will have lifetimes in excess of 20 years.

From entry-level to high-performance industry-certified hardware, **Agatel** offers a full solution spectrum to suit our customers' budgets and application requirements, with features such as industrial-grade reliability, integrated security, network redundancy, and advanced performance.

Our product solution profile includes industrial Ethernet switches, network time servers, media converters, industrial wireless devices, and serial device servers, covering a wide array of mission-critical applications such as automation, security, transport, water, oil and gas, and power grids.



## WHY CHOOSE US

We help our customers reduce downtime and operational costs of their industrial applications in harsh environments. Leading system integrators in EMEA rely on our niche technical expertise and product quality to increase their applications' robustness, revenues, and competitive differentiation.

**Agatel** ruggedized high-quality solutions are designed to deliver zero-network-downtime for harsh project demands, allowing for reliable connectivity to keep people and assets safe and secure in harsh and hazardous environments, and allowing customers to focus on growing their business.

### Agatel Ltd

1st Floor, Apex House  
Calthorpe Road, Edgbaston  
Birmingham B15 1TR  
United Kingdom

Tel: +44 121 809 8855  
E-mail: [info@agatel.co.uk](mailto:info@agatel.co.uk)  
Website: [www.agatel.co.uk](http://www.agatel.co.uk)

