

FEATURE HIGHLIGHTS



- 8 x 10/100/1000 BASE-T(X) ports or
- 8 x 10/100/1000 BASE-T(X) ports with 2 x 100/1000 SFP slots or
- 8 x 10/100/1000 BASE-T(X) ports with 2 x 1000 BASE-X SFP slots
- Optional PoE ports with booster function (12-57 VDC)
- Supports QoS, VLAN and RSTP redundancy, web configuration
- IP30 aluminum with DIN-Rail / wall mount (optional)
- Operating range of -40°C to +75°C
- EN 55032 and UL/IEC 62368 compliant

PRODUCT DESCRIPTION

This Lite-Managed 24V PoE Gigabit Switch series is available in two models with different port numbers. The EHG6508 model features 8 x 10/100/1000BASE-T(X) ports, of which 0, 4 or 8 are PoE ports. The EHG6510 model features the same 8 x 10/100/1000BASE-T(X) with three kinds of PoE port configurations, as well as 2 additional 100 BASE-FX or 1000 BASE-X SFP slots, totaling 10 ports altogether. *Full configuration options available in the ordering information section.*

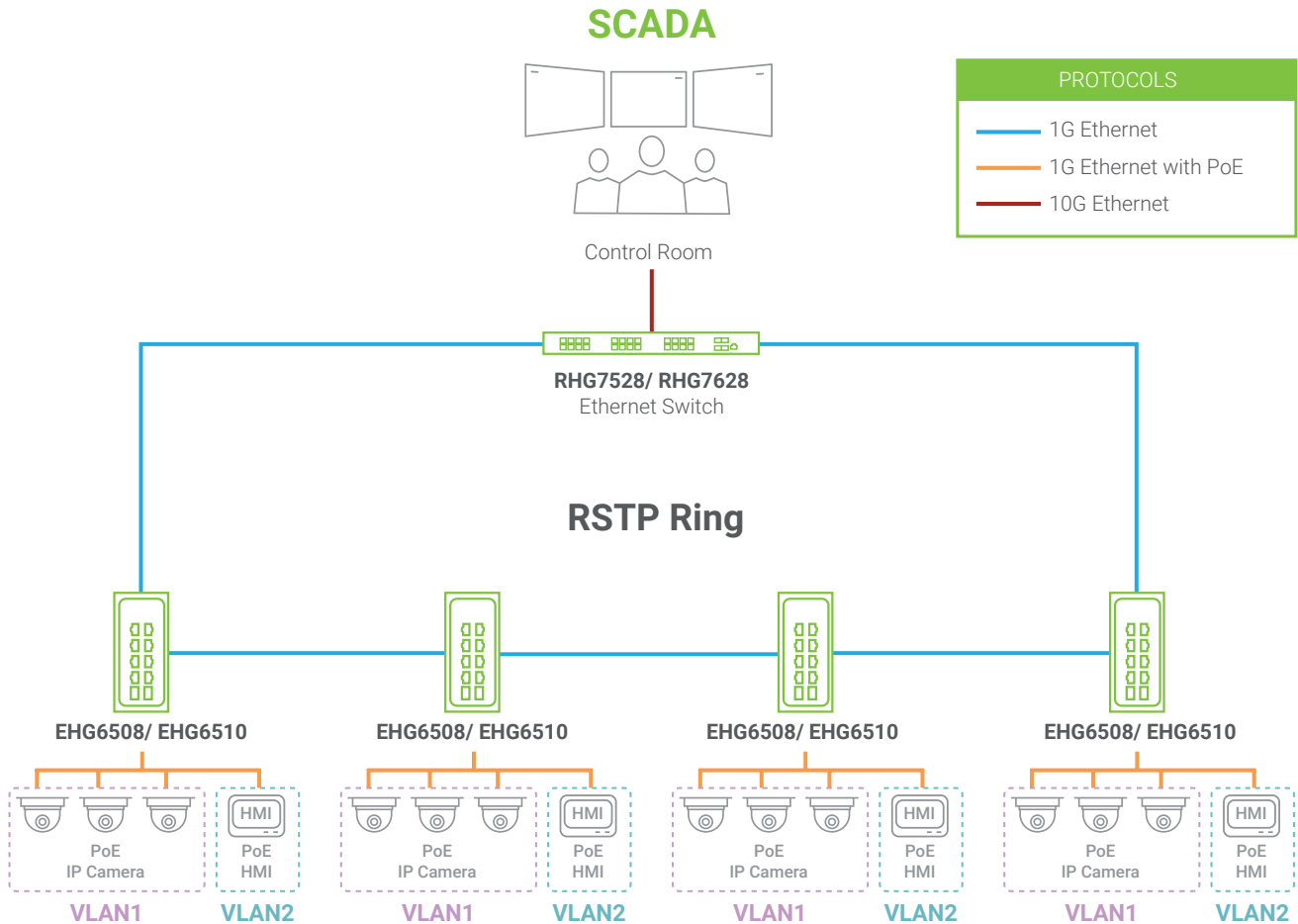
Compact: Slim, flat, and streamlined, this switch series is ideal for demanding industrial applications which require compact solutions to deliver network performance.

Rugged: Supporting a wide operating temperature range of -40°C to +75°C, and compliant with essential sections of UL/CB(IEC) 62368-1 and MIL-STD-810F, this series can perform under a variety of conditions such as extreme weather, shock, drop, vibration and wide voltage input ranges.

PoE Booster: As part of its compact design, 24V models offer an optional voltage booster function, which allows input voltages from as low as 12V to provide Power over Ethernet to end devices. This removes the need for additional, separate power inputs, which can often be costly and space-consuming.

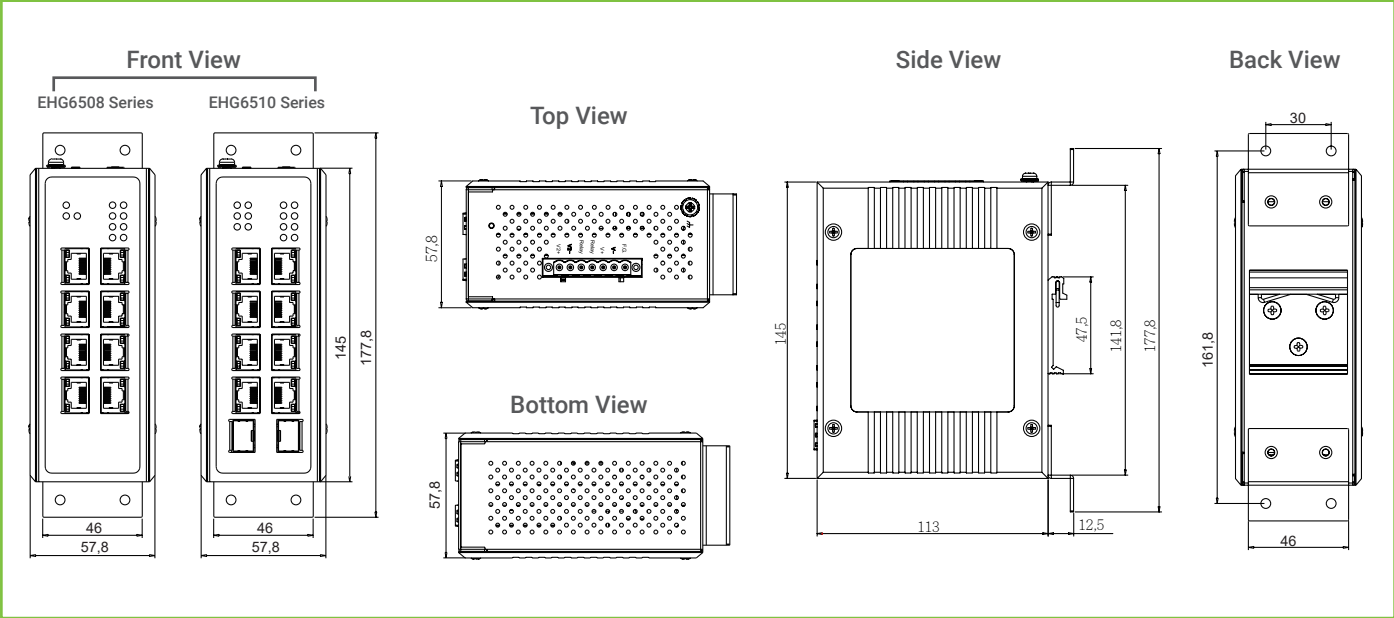
Web Configuration: The EHG65XX Series is configured with a user-friendly web-based UI. A quick minute is all you need to set up Quality of Service (QoS), Virtual LAN (VLAN) and link redundancy in case of the unlikely event of a link failure.

APPLICATION CASE



With compact, industrial-grade design, the EHG65XX series is suitable for a wide variety of applications in smart cities, industrial control systems and factory automation. One of the most common is for surveillance IP cameras, which are often PoE devices. Especially where large quantities of cameras are used across a wide area, a single EHG65XX **powers multiple devices** while facilitating their data flow up to SCADA or higher storage and analysis centers. Through easy web configuration, the network of connected devices can be segmented into different VLANs, **simplifying complex networks** that may cause loading and/or broadcasting issues. Furthermore, built-in RSTP support enables ring topologies, so whenever a link failure occurs, the EHG65XX ensures efficient self-healing through redundant routes, **minimizing any potential loss of service**.

DIMENSIONS & LAYOUT



SPECIFICATIONS

Network Interface	
Processing Scheme	Store and Forward
MAC Address Table	16 K
Packet Buffer Size	2Mbits
Jumbo Frame	10K Bytes
Ethernet	
Compliance	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) and 100BASE-FX IEEE 802.3ab for 1000BaseT IEEE 802.3x for 1000BaseX IEEE 802.3x for Flow Control, back pressure flow control IEEE 802.3af/at for Power-over-Ethernet IEEE 802.3az Energy Efficient Ethernet IEEE 802.1Q for VLAN Tagging IEEE 802.1p for CoS IEEE 802.1D-2004 for Rapid Spanning Tree Protocol
Protocols	IPv4, HTTP, RSTP, QoS, DHCP client
Flow Control	Back pressure and pause frame-based flow control schemes
RJ 45 Transmission Rate	10/100/1000 Mbps
SFP Transmission Rate	100/1000 Mbps – EHG6510-2SFP-D-xxx only 1000 Mbps - EHG6510-2SFP-xxx only (no -D extension)
Auto MDI/MDI-X	Yes
Power	
PoE Voltage Booster	Yes (Max support 120W), by optional model
Input Voltage	Non PoE : 12~57 VDC PoE version: 12~57 VDC (power limitations)
Input Current	PoE booster (24V): 12~24VDC: max 60W; 24~57VDC max 120W
Max. Power Consumption	12 to 23VDC, max total 60W 24 to 57 VDC, max total 120W
Other features	Modbus TCP, PoE Schedule
LED	
Indicators	P1, P2, Alarm, SFP1, RUN, PoE
Physical Characteristics	
Housing	IP30 metal housing
Dimension (W x H x D)	54 x 145 x 113 mm
Weight	700g
Installation	DIN-Rail , Wall mount (optional kit)*
Environmental Limits	
Operating Temperature	Non-PoE models: -40°C to +75°C (-40°F to +167°F) PoE models: 12 to 23 VDC, 60W, -40°C to +70°C (-40°F to +158°F) 24 to 57 VDC, 120W, -40°C to +70°C (-40°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	UL62368-1:2014(2nd Ed.), CB/IEC60950-1:2005(2nd Ed.), CB/IEC62368-1:2014(2nd Ed.)			
EMC	FCC Part 15, Subpart B, Class A EN 55032:2015 +AC:2016 Class A EN 61000-3-2: 2014, Class A, EN 61000-3-3: 2013, EN 61000-6-4: 2007+ A1: 2001 EN 55024: 2010+ A1:2015, EN 61000-6-2:2005+ AC : 2005			
Test	Item		Value	Level
IEC 61000-4-2	ESD	Contact Discharge	±6kV	3
		Air Discharge	±8kV	3
IEC 61000-4-3	RS	80-1000MHz	10(V/m)	3
		1. 4-2.0GHz 2. 0-2.7GHz	3(V/m) 1(V/m)	
IEC 61000-4-4	EFT	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-Earth ±2.0KV	3
IEC 61000-4-6	CS	0.15-80MHz	10 V rms	3
IEC 61000-4-8	PFMF	Enclosure	30 A/m 1 min. all 3 spatial axes	3
Shock	MIL-STD-810F Method 516.5			
Drop	MIL-STD-810F Method 516.5			
Vibration	MIL-STD-810F Method 514.5 C-1 & C-2			
RoHS	Yes			
MTBF	20.35 years according to MIL-HDBK-217F (worst case: 15.74 years)			
Warranty	5 years			

ORDERING INFORMATION

Ordering Information							
Model Name	Part Number	Description					
		RJ45 Ports	1000 SFP slots	100/1000 SFP slots	PoE	24V	CPU
EHG6508	1P1EHG65080004G	8	0	0	0	-	V
EHG6508-4PoE-24V	1P1EHG65080005G	8	0	0	4	V	V
EHG6508-8PoE-24V	1P1EHG65080006G	8	0	0	8	V	V
EHG6510-2SFP	1P1EHG65100007G	8	2	0	0	-	V
EHG6510-4PoE-2SFP-24V	1P1EHG65100008G	8	2	0	4	V	V
EHG6510-8PoE-2SFP-24V	1P1EHG65100009G	8	2	0	8	V	V
EHG6510-2SFP-D	1P1EHG6510000AG	8	0	2	0	-	V
EHG6510-8PoE-2SFP-D-24V	1P1EHG6510000BG	8	0	2	8	V	V

Optional Accessories			
Type	Model name	Part Number	Description
Wall Mount	Wall Mount set	70100000000052G	Aluminum wall mount kit
Power Supply	SDR-75-24	50500752240001G	DIN RAIL, 88-264 VAC to 24 VDC 3.2A, 75W
	SDR-240-48	50502401480001G	DIN RAIL, 88-264 VAC to 48-55 VDC 5A, 240W
	SDR-480-48	50504801480001G	DIN RAIL, 88-264 VAC to 48-55 VDC 10A, 240W
SFP Transceiver	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