EHG6408/EHG6410 Series

Industrial Unmanaged 24V PoE Gigabit Switch with voltage booster (12~57V)

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)
- IP30 aluminum with DIP-Rail / Wall mount (optional)
- Operating range of -40°C to +75°C
- CB/IEC60950-1&62368-1 and UL/cUL62368-1

PRODUCT DESCRIPTION

This Unmanaged PoE Gigabit Switch series is available in two port models. The EHG6408 model features 8 x 10/100/1000BASE-T(X) ports, which supports a port configuration mix of up to 8 x non-PoE ports and either 4 x or 8 x PoE ports. The EHG6410 model features 8 x 10/100/1000BASE-T(X), which supports a port configuration mix of up to 8 x non-PoE ports and either 4 x or 8 x PoE ports, as well as either an additional 2 x 100 BASE-FX / 1000 BASE-X ports with SFP slots, totaling 10 x ports altogether.

Full configuration options are available in the ordering information.

Industrial Grade Design

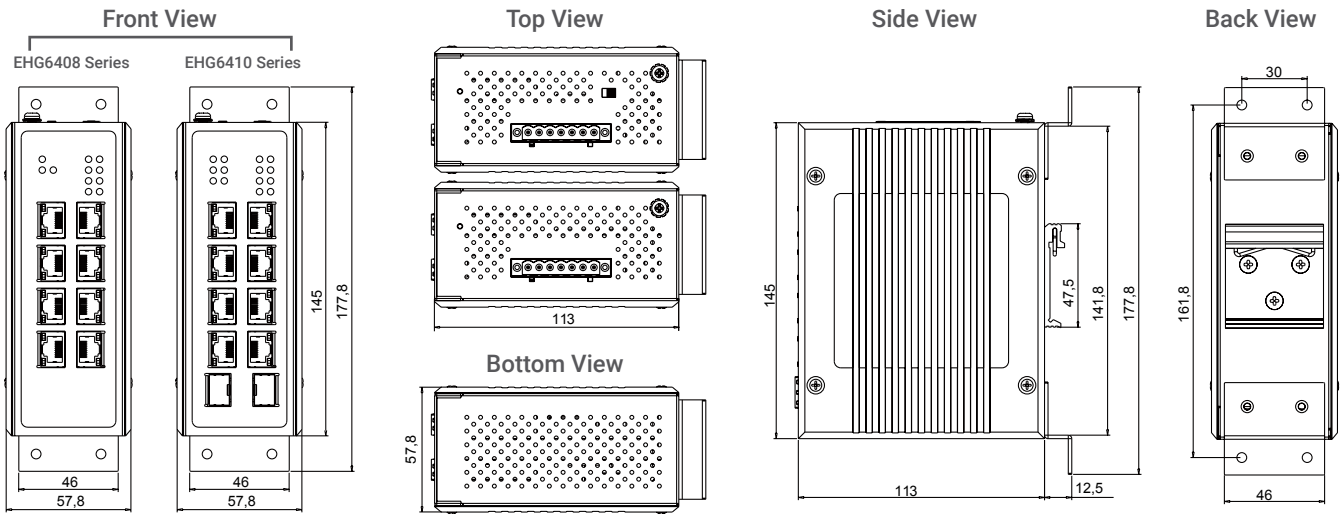
With its modern, slim, and flat design to minimize surface area usage, this switch series is ideal for demanding industrial applications that require compact solutions to deliver network performance.

Supporting a wide operating temperature range of -40°C to 75°C and being compliant with essential sections of UL/CB(IEC) 62368-1, and MIL-STD-810F, this switch series is a powerful compact device that can perform in various environments under a variety of conditions, such as power input voltage, shock, drop and vibration.

PoE Voltage Booster Option

As part of its compact design, this switch series is available with an optional voltage booster for PoE end devices. Available on the 24V models, the PoE Voltage Boost raises the input voltage of power inputs 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.

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
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 (by Dip-switch) – EHG6410-D only 1000 Mbps - EHG6410 (without -D extension only)
Auto MDI/MDI-X	Yes
Power	
PoE Voltage Booster	Yes (Max support 120W), by optional model
Input Voltage	12~57 VDC
Input Current	PoE booster (-24V): 12~23VDC, max 7A 24~57VDC, max 6A
Max. Power Consumption	12~23VDC, max total 60W 24~57VDC, max total 120W
LED	
Indicators	P1, P2, Fault, SFP1-2, PoE LED
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: 12~23VDC, 60W, -40°C to +70°C (-40°F to +158°F) 24~57VDC, 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 Air Discharge	±6kV ±8kV	3 3
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	DC Power Port Signal Port	±2.0KV ±1.0KV	3 3
IEC 61000-4-5	Surge	DC Power Port DC Power Port Signal Port	Line-to Line±1.0KV Line-to Earth±2.0KV Line-to Earth±2.0KV	3 3 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
EHG6408	1P1EHG64080004G	8*1G RJ
EHG6408-4PoE-24V	1P1EHG64080005G	4*1G RJ;4*1G PoE Booster
EHG6408-8PoE-24V	1P1EHG64080006G	8*1G RJ/PoE Booster
EHG6410-2SFP	1P1EHG64100007G	8*1G RJ;2*1G SFP
EHG6410-4PoE-2SFP-24V	1P1EHG64100008G	4*1G RJ;4*1G PoE Booster;2*1G SFP
EHG6410-8PoE-2SFP-24V	1P1EHG64100009G	8*1G RJ/PoE Booster;2*1G SFP
EHG6410-2SFP-D	1P1EHG6410000AG	8*1G RJ;2*100/1G SFP
EHG6410-4PoE-2SFP-D-24V	1P1EHG6410000BG	4*1G RJ;4*1G PoE Booster;2*100/1G SFP
EHG6410-8PoE-2SFP-D-24V	1P1EHG6410000CG	8*1G RJ/PoE Booster;2*100/1G SFP

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; AC 88~264V to 24VDC 3.2A; 75W
	SDR-240-48	50502401480001G	DIN RAIL; AC 88~264V to 48V~55VDC 5A; 240W
	SDR-480-48	50504801480001G	DIN RAIL; AC 88~264V to 48V~55VDC 5A; 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