

**Industrial Gigabit Ethernet
Media Converter with
optional POE**



PRODUCT OVERVIEW



- 1x Gigabit Ethernet port
- 1x 100/1000F(x) SFP Slot – DIP switch speed select
- Optional IEEE802.3at 30W PoE
- Optional IEEE802.3bt 95W PoE
- Built for harsh environments and wide temperature range applications
- DIN Rail Mounting, optional wall mount
- Supports PoE PD Alive Check function for PoE Device Power Cycle (* PoE units only) – DIP Switch enable
- Supports Link Fault Pass Thru (non-PoE units only) – DIP Switch enable

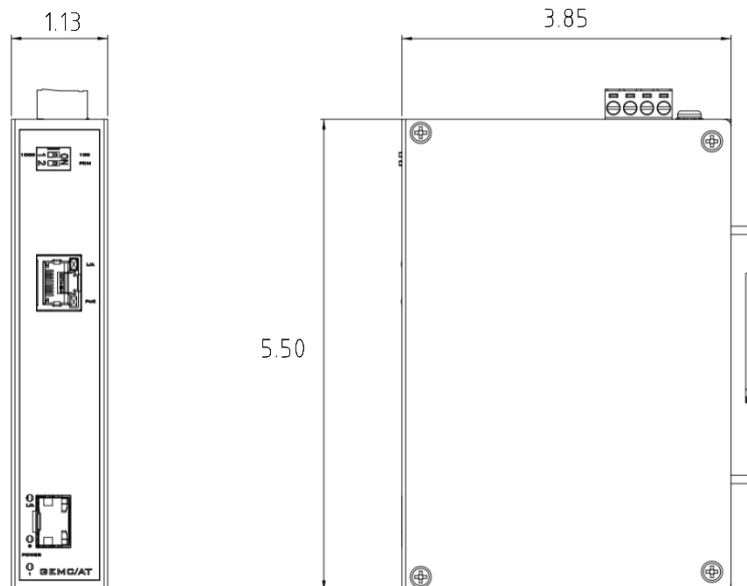
ORDERING INFORMATION

PART CODE	DESCRIPTION
GEMC	Gigabit Ethernet Media Converter with 1TX and 1x100/1000 FX ports
GEMC/AT	Gigabit Ethernet Media Converter with 1TX and 1x100/1000 FX ports and 30W PoE
GEMC/BT	Gigabit Ethernet Media Converter with 1TX and 1x100/1000 FX ports and 95W PoE

RECOMMENDED ACCESSORIES

SFP-FS2L-1313-20	SFP – 100M, SM, 2 fiber, LC, 1310 nm, 20km
SFP-GS2L-1313-20	SFP – 1000M, SM, 2 fiber, LC, 1310 nm, 20km

OUTLINE (INCHES)



SPECIFICATIONS

TECHNOLOGY

Standards	IEEE 802.3 10BaseT
	IEEE 802.3u 100BaseTX
	IEEE 802.3ab 1000BaseT
	IEEE 802.3z 1000BaseX
	IEEE 802.3x Flow Control
	IEEE 802.3af Power over Ethernet
	IEEE 802.3at PoE+
IEEE 802.3bt PoE++	
Processing Type	Store and Forward

INTERFACE

RJ45 Port	1x 10/100/1000T(x), auto negotiation speed duplex mode, auto MDI/MDI-X	
Fiber Port	1x 100/1000 SFP Slot	
LED Indicators	GEMC	PWR1, PWR2, 1000 L/A (Green), 10/100 L/A (Amber), SFP L/A
	GEMC/AT	PWR1, PWR2, TX L/A (Green), PoE (Amber), SFP L/A
	GEMC/BT	PWR1, PWR2, TX L/A (Green), PoE (Amber), SFP L/A
PoE Pin Out	V+, V+, V-, V-, for pin 3, 6, 1, 2, Endspan, MDI Mode A	
	V+, V+, V-, V-, for pin 7, 8, 4, 5, Endspan, MDI Mode B 4-pair mode for 802.3bt Type 4 (/BT only)	
DIP Switch	100/1000 SFP mode select	
	Link Fault Pass Through (GEMC only)	
	PD Monitor enable (PoE units only)	
Power Connector	1x removable 4-contact terminal block, dual redundant inputs	

POWER REQUIREMENTS

Operation Voltage	GEMC	12-48VDC, redundant dual inputs
	GEMC/AT	44-57VDC, >50VDC for PoE+ recommended
	GEMC/BT	44-57VDC, >52VDC for PoE++ recommended
Power Consumption	<5W	
PoE Power Budget	GEMC/AT	30W
	GEMC/BT	95W
Protection	Overload Current Protected, Reverse Polarity Protected	

ENVIRONMENTAL LIMITS

Operating Temperature	-40°C ~ 75°C (-40°F ~ 167°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 to 95%, (non-condensing)

SPECIFICATIONS (CONTINUED)

MECHANICAL CONSTRUCTION

Enclosure	Aluminum
Protection Class	IP30
Dimensions (WxHxD)	1.13 x 5.50 x 3.85 inches 28.7 x 140 x 98 mm
Weight	0.68lbs 0.31kg
Mounting	DIN-Rail Mounting, Optional Wall Mounting Kits

REGULATORY APPROVALS

EMI	FCC Part 15 Subpart B Class A CE EN 55032 Class A
EMS	IEC61000-4-2 (ESD) IEC61000-4-3 (RS) IEC61000-4-4 (EFT) IEC61000-4-5 (Surge) IEC61000-4-6 (CS) IEC61000-4-8 (Magnetic Field)
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
Certifications	IEC 61000-6-2 IEC 61000-6-4
MTBF	>100,000 hours
Warranty	5 Years

Notes:

- In a continuing effort of improvement and updating technology, product specifications are subject to change without notice

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