

MA-0200G Series

Industrial Gigabit MACsec Encoder



- Provides 2 end-to-end encrypted (E2EE) channels for secure communications
- Secure legacy PLCs and automation equipment
- Prevent man-in-the-middle attacks
- TCP/IP traffic cannot be sniffed and decoded
- 2 channels / 4 ports 10/100/1000BASE-T Ethernet or 100/1000BASE-T FX SFP Slot
- IEEE 802.1AE MACsec secure communication
- Line rate bi-directional traffic encryption/decryption
- Supports AES-256 encryption
- Built for harsh environments and wide temperature range applications
- Web GUI configuration interface



Specifications

Technology

Standards	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab 1000Base-T IEEE 802.3z 1000Base-X IEEE 802.1AE-2006 MACsec Encry IEEE 802.1AEbn-2011 Encry AES-256 IEEE 802.1AEbw-2013 Encry 64bit PN
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Feature

Encryption	GCM-AES-256
Tag detection	802.1q VLAN, Q-in-Q
Queue	Ingress, Egress, Global

Interface

RJ45 Port	10/100/1000BASE-T(x), auto negotiation speed duplex mode, auto MDI/MDI-X
Fibre Port	100/1000BASE-FX SFP Slot
LED Indicators	Per unit: PWR1, PWR2, Status Ports: Link/Active
Serial Console	1x RS232 in RJ45 connector with console cable, 115.2Kbps, 8N1
Out band control	1x 10/100BASE-T(x) Ethernet, auto negotiation

Power Requirements

Operation Voltage	12-48VDC, redundant dual inputs
Connection	1x removable 4-contact terminal block
Power Consumption	5W
Protection	Overload Current Protected, Reverse Polarity Protected

Mechanical Construction

Enclosure	Steel met
Protection Class	IP30
Dimensions	30x140x98 mm (WxHxD)
Weight	0.45kg
Mounting	DIN-Rail Mounting

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)

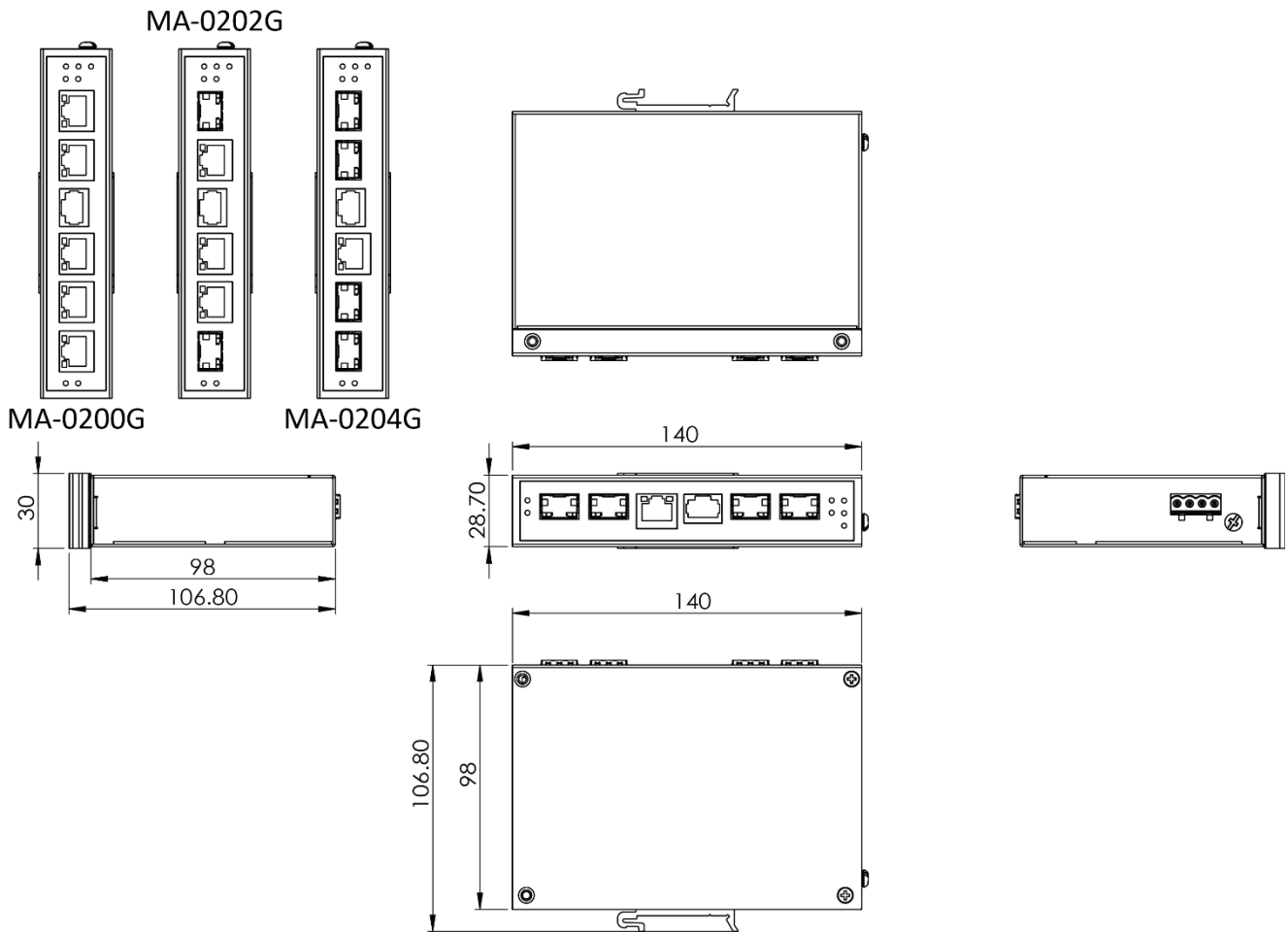
Regulatory Approvals

EMI	FCC Part 15 Subpart B Class A CE EN 55022 Class A
	IEC61000-4-2 IEC61000-4-3 IEC61000-4-4 IEC61000-4-5 IEC61000-4-6 IEC61000-4-8
EMS	

Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
MTBF	>100,000 hours
Warranty	5 Years

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

Dimensions (unit = mm)



Ordering Information

MA-0200G	Industrial Ethernet MACsec Encoder - 2 channels of 10/100/1000T(x) + 10/100/1000T(x)
MA-0202G	Industrial Ethernet MACsec Encoder - 2 channels of 10/100/1000T(x) + 100/1000FX SFP Slot
MA-0204G	Industrial Ethernet MACsec Encoder - 2 channels of 100/1000 SFP Slot + 100/1000FX SFP Slot

Optional Accessories

NDR-75-24	75W Industrial DIN-Rail Power Supply, 24VDC (metal case)
NDR-75-48	75W Industrial DIN-Rail Power Supply, 48VDC (metal case)