

MA-0204G

4 Port Industrial Managed 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
- 4 ports 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

Standard

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

Interface

Fiber Port 4x 100/1000F(x) 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 metal

Protection Class IP30

Dimensions 30x140x98 mm (WxHxD)

Weight 0.45 kg

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)

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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

MTBF >100,000 hours

Warranty 5 Years

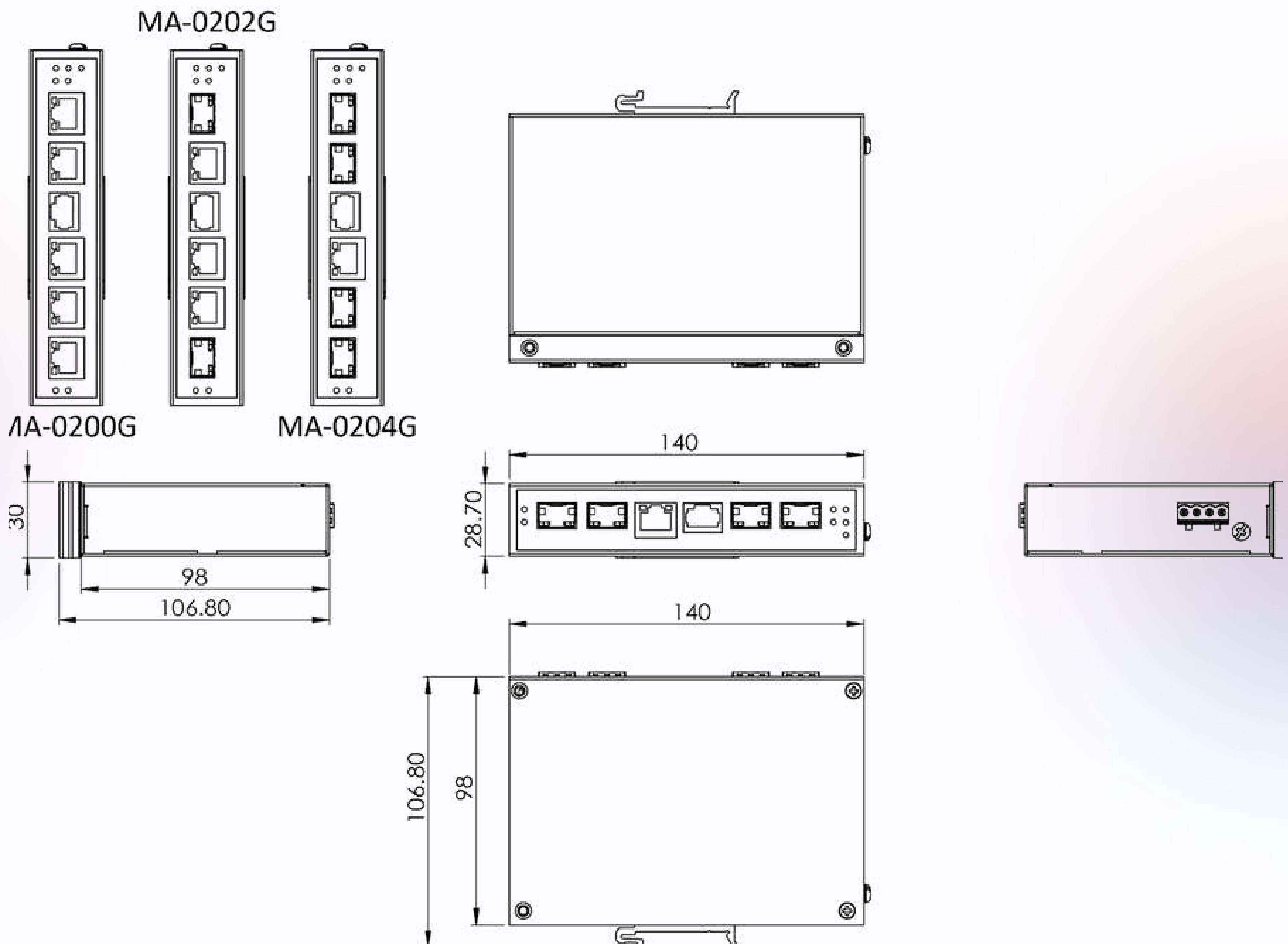
Feature

Encryption GCM-AES-256

Queue Ingress, Egress, Global

Tag detection 802.1q VLAN, Q-in-Q

Dimensions (unit = mm)



Ordering Information

Available Models

MA-0204G-T 4 Port Industrial Managed Gigabit Ethernet Switch
- 4x 100/1000F(x) SFP Slot
- Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F)

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)