



## FEATURE HIGHLIGHTS

- 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 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

## DESCRIPTION

RPT-E2004G-T-X2 series support IEEE802.1AE Macsec and AES-256 encryption to enable legacy point-to-point (PTP) data security for IP devices, PLC systems. It has 2 channels of 10/100/1000TX and SFP slot combination for user's application. The design of RPT-E2004G-T-X2 series are industrial grade and built for harsh environments. It protects the data security and at the same time its rugged design can be very reliable for industrial application.

## 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
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

## SPECIFICATIONS

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
EMS	IEC61000-4-2
	IEC61000-4-3
	IEC61000-4-4
	IEC61000-4-5
	IEC61000-4-6
	IEC61000-4-8
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
MTBF	>100,000 hours

## ORDERING INFORMATION

Model Name	Description
RPT-E2004G-T-X2	- 2 channels of 10/100/1000T(x) + 10/100/1000T(x)
RPT-E2004G-2F-T-X2	- 2 channels of 10/100/1000T(x) + 100/1000FX SFP Slot
RPT-E2004G-4F-T-X2	- 2 channels of 100/1000 SFP Slot + 100/1000FX SFP Slot

## DIMENSIONS

Unit: mm

