PRODUCT OVERVIEW

The MT-TP4EPOC is a professional-grade Ethernet over Coax (EoC) converter system designed to enable IP camera installations and network connectivity over existing coaxial cable infrastructure. This innovative solution eliminates the need for costly cable replacement while providing reliable Ethernet connectivity and Power over Ethernet (PoE) support up to 1000 meters.
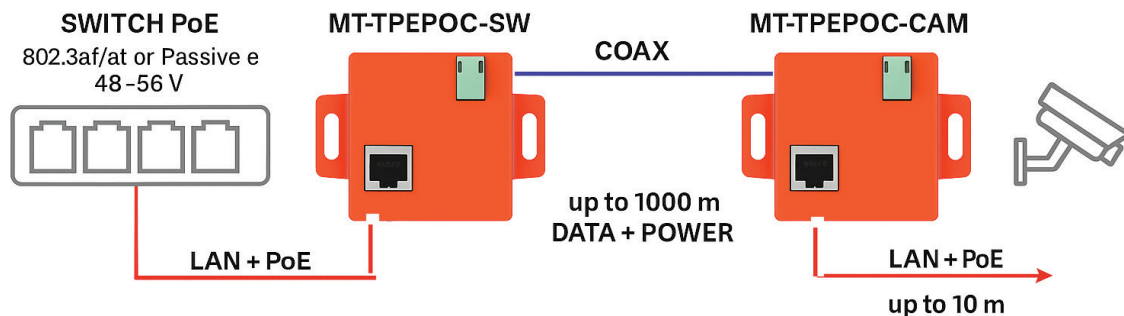
FEATURES

- Extended Range: Up to 1000m transmission over standard coaxial cable
- PoE Support: 802.3af/at/bt compliant with up to 60W power delivery
- Auto-negotiation: 10/100 Mbps Ethernet with automatic speed adjustment
- Compact Design: Small form factor for easy installation in camera housings
- Plug-and-Play: No configuration required
- Industrial Grade: -25°C to +65°C operating temperature range

APPLICATIONS

- IP camera retrofitting in existing CCTV installations
- Building automation and access control systems
- Industrial Ethernet extension
- Remote network device deployment
- Cost-effective network infrastructure upgrades

Datasheet rev.A25.06

SWITCH PoE
802.3af/at or Passive e
48 – 56 V

MT-TPEPOC-SW

COAX

MT-TPEPOC-CAM

LAN + PoE

up to 1000 m
DATA + POWER

LAN + PoE

up to 10 m

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TECHNICAL SPECIFICATIONS

Network Interface	Ethernet Ports	1 × RJ45 10/100 Mbps auto-negotiating
	Coaxial Connector	BNC Female
	Supported Standards	IEEE 802.3 10BASE-T/100BASE-TX
	Maximum Data Rate	100 Mbps (auto-negotiates to 10 Mbps if needed)

Power Specifications	Input Voltage Range	10-58 VDC
	PoE Output Voltage	44-58 VDC
	Power Consumption	1.35W (full channel operation)
	PoE Input Support (TX Unit)	
	802.3af	Up to 15W
	802.3at	Up to 30W
	Passive PoE	Up to 30W
	PoE Output Support (RX Unit)	
	802.3af	Up to 15W
	802.3at	Up to 30W
	802.3bt	Up to 60W (requires 55V DC input)
	PoE Pin Assignment	1,2 (+), 3,6 (-) and/or 4,5 (+), 7,8 (-)

Transmission Distance	Coaxial Cable	Up to 1000m
	UTP Cable (Switch to TX)	Up to 100m
	UTP Cable (RX to Camera)	Up to 100m

Environmental	Operating Temperature	-25°C to +65°C
	Storage Temperature	-40°C to +85°C
	Relative Humidity	5% to 95% non-condensing
	Protection Rating	IP20

Physical	Dimensions (L×W×H)	73mm × 51mm × 21mm
	Weight (per unit)	30g
	Housing Material	High-impact ABS plastic
	Mounting Options	DIN rail (TH35), wall mount, standalone

Led Indicators	PWR	Power presence
	PoE (Yellow)	PoE power active
	LINK (Green)	Ethernet link and data activity
	10Mb	10 Mbps operation mode
	COAX LINK (Green)	Coaxial link and data activity
	LV	Low voltage warning (<44V)

Protection Features	Overvoltage Protection	Yes, all ports
	Short Circuit Protection	Yes, with auto-recovery
	ESD Protection	Up to 4kV
	Surge Protection	IEC 61000-4-5 compliant

Certifications	Safety	CE marked
	Environmental	RoHS, WEEE compliant
	EMC	FCC Part 15 Class B

Additional Features	Configuration Required	None (Plug-and-Play)
	Screw Terminal	0.32-3.3 mm² (22-12 AWG)
	Latency	<1ms typical

QUICK REFERENCE GUIDE

Power Requirements by Application		
Application	Minimum Input Voltage	Maximum PoE Output
Non-PoE devices	10V DC	N/A
802.3af devices (15W)	44V DC	15W
802.3		