

Set of active converters for Ethernet and PoE transmission over 2-wires

10Mbps range up to 1000m

ETH10-2wire-A-SET is a set of active converters for the transmission of Ethernet data and PoE power using 2 wires, e.g. one pair of twisted-pair UTP cable.

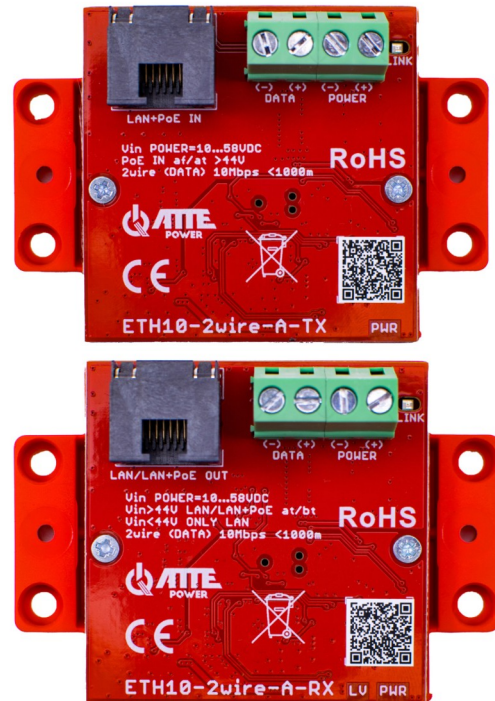
The devices allow the installation of cameras or other IP PoE devices in places where the replacement of the existing cabling is impossible or uneconomical.

Thanks to its high resistance to interference, the ETH10-2wire-A-SET can be used on any cable. The converter set works best with UTP twisted pair cable.

ETH10-2wire-A-TX module is powered from any PoE switch (RJ45 port) and then, via 2 wires, enables bi-directional network communication and power supply of the ETH10-2wire-A-RX module.

The maximum cable length in the 2wire path is 1000m. A camera or other PoE receiver can be connected to the RJ45 port of the ETH10-2wire-A-RX module at the end of the line. Devices can optionally be powered from POWER screw connectors.

The device has a very small footprint, which allows it to be easily integrated into small spaces, e.g. in a camera base.



FEATURES

- transmission range up to 1000m at 10Mbps
- immunity from interference
- can be powered up from 802.3af/at PoE switches, or external power supply (ETH10-2wire-A-TX)
- capable of powering up PoE 802.3af/at or PoE
- up to 30W total power in the entire power path
- very low power consumption – 0.7W full track
- possibility to mount the receiver in the camera base or other installation box
- clear, optical indication of power and data transmission status
- easy and quick commissioning without configuring parameters



ETH10-2wire-A-SET



TECHNICAL SPECIFICATION

Connectors	ETH10-2wire-A-TX/RX: 1 RJ45 port 1 Screw connector	Maximum distance of 2wire	Up to 1000 metres
Ports Functions	ETH10-2wire-A-TX: PoE IN (power supply from PoE line): PASSIVE (up to 30W), 802.3at (up to 30W), 802.3af (up to 15W) PoE PINOUT: 1,2 (V+/-) 3,6 (V+/-) and/or 4,5 (V+/-) 7,8 (V+/-) POWER: alternative power supply when there is no PoE DATA (2wire line): data and power transmission over 2 wires ETH10-2wire-A-RX PoE OUT (to PoE powered devices) 802.3af/at/bt PoE PINOUT: 1,2 (V-) 3,6 (V+) 4,5 (V+) 7,8 (V-) POWER: alternative power supply DATA (2wire line): transmission of data and power over 2 wires	Ports Protection	LAN and DATA ports: Overvoltage protection POWER ports: Reverse polarity protection PoE IN ETH10-2wire-A-TX port: 0.6A overload protection
Input Voltage	ETH10-2wire-A-TX Vin PoE = 24 ... 56 VDC Vin POWER = 10 ... 56 VDC ETH10-2wire-A-RX Vin = 10 ... 56 VDC	Indication	LED PWR – power presence LED LINK (green) - link and data transmission in 2wire track LED LV LowVoltage signaling LED (<44V) LED RJ45 port (yellow) - presence of PoE LED RJ45 port (green) - link and data transmission in LAN track
Output Voltage	ETH10-2wire-A-TX VoutDATA = Vin ETH10-2wire-A-RX (for PoE devices) Vout = Vin	Housing Construction	Universal mounting base
Power consumption	0,7 W (full track)	Assembly	Mounting pins
		Ingress Protection Rating	IP20
		Operating Temperature	-25°C...+65°C
		Dimensions	ETH10-2wire-A-TX - 51 x 51(73) x 23mm ETH10-2wire-A-RX - 51 x 51(73) x 23mm
		Weight	ETH10-2wire-A-TX - 0,03kg ETH10-2wire-A-RX - 0,03kg

Example application of the ETH10-2wire-A-SET to power an IP camera.

