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UltraReach EOC3

UltraReach PoE over Single Pair Cable or Twisted Pair Cable (Transmitter + Receiver)



Outstanding Features

- IP & PoE over Single/Twist Pair - PoE + data transmission over single pair cable or twisted pair cable. Supports 100Mbps up to 300m and 10Mbps up to 650m.
- Enhanced Thermal Performance for Long-Term Stability – Helps maintain stable operation under continuous use.
- Plug-n-Play - No configuration required. Connect the EOC Receiver to a PoE switch or injector (POE-IN3001G), then link it to the EOC Transmitter via single pair or twisted pair cable. IP cameras or VoIP phones receive PoE power and data instantly.
- Ideal for Elevator Applications - Delivers PoE power and IP data through existing traveling cables (single pair or two-wire) where Ethernet and power are unavailable, with no rewiring required.
- Point to Point Connection Only - Operates in dedicated point-to-point mode (MoCA-style) for video, audio, data, and control signals over coax or twist pair.

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Specification

Hardware		
Model	UltraReach EOC-T3 (Transmitter)	UltraReach EOC-R3 (Receiver)
Function Port	1 × 10/100 Mbps Ethernet port (RJ45) 1 × 2-pin 3.81 mm terminal block	
Power Consumption	<2W	
Transmission Bandwidth	24 AWG pure copper：300m/100Mbps；650m/10Mbps	
PoE Protocol	The EOC3 operates as a PoE PD on the Receiver side and a PoE PSE on the Transmitter side, enabling PoE power pass-through over one twisted pair. PoE power and Ethernet data are first received by the Receiver, then regenerated and output by the Transmitter to the downstream device.	
	Transmitter (PSE): Delivers IEEE 802.3af/at–compliant PoE power to downstream powered devices (IP cameras, etc.), supporting IEEE 802.3af/at or 48 V Passive PoE (power on pairs 1/2 (+), return on 3/6 (-)).	Receiver (PD): Accepts PoE input from an upstream PoE source, with automatic support for PoE Mode A or Mode B. A 30 W PoE source is recommended for stable operation.
Network Standard	IEEE802.3, IEEE802.3u, IEEE802.3x	
Capatible Cables	RJ45 Port: Cat 5e/Cat 6 Ethernet cable 2-Pin Terminal Block: Single-pair or twisted-pair cable (two conductors)	
Lightning Protection	Common Mode 6KV Differential Mode 3KV	
Operating Temperature	–30°C to 65°C (–22°F to 149 °F)	
Operating Humidity	5%–95%	
Weight	79 g (0.174 lb)	
Dimension (W×D×H)	79 * 52 * 25 mm (3.11 * 2.05 * 0.98 in)	

*Disclaimer：Technical specifications may subject to change without prior notice

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Transmission Performance

Transmission Distance		Performance
100 m (330 ft)	Bandwidth	100 Mbps
	Load Capacity	18 W
300 m (984 ft)	Bandwidth	100 Mbps
	Load Capacity	7 W
600 m (1969 ft)	Bandwidth	10 Mbps
	Load Capacity	3 W
*Measured using 24 AWG pure copper twisted-pair cable with 54V PoE Input		

Interface (Transmitter & Receiver)

Wiring ports suitable for single-pair
or twisted-pair cables.



UltraReach EOC-T3

Wiring ports suitable for single-pair
or twisted-pair cables.



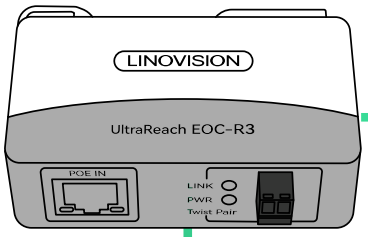
UltraReach EOC-R3

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Connection Diagram

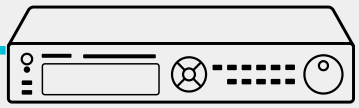
UltraReach EOC-R3



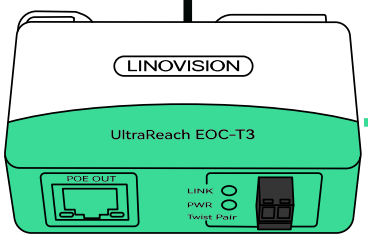
Cat5E/Cat6

Ethernet Cable

PoE NVR

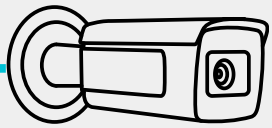


Max 2133ft
Single/Twisted-Pair Cables



Cat5E/Cat6

Ethernet Cable

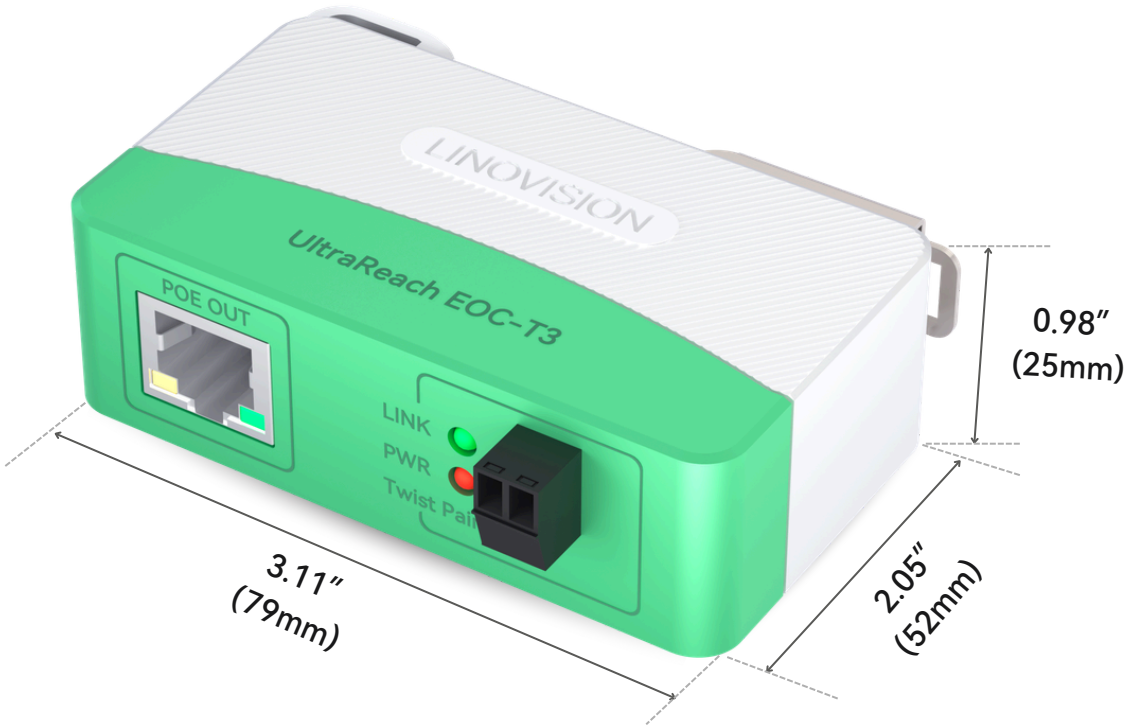


IP Camera or PoE device

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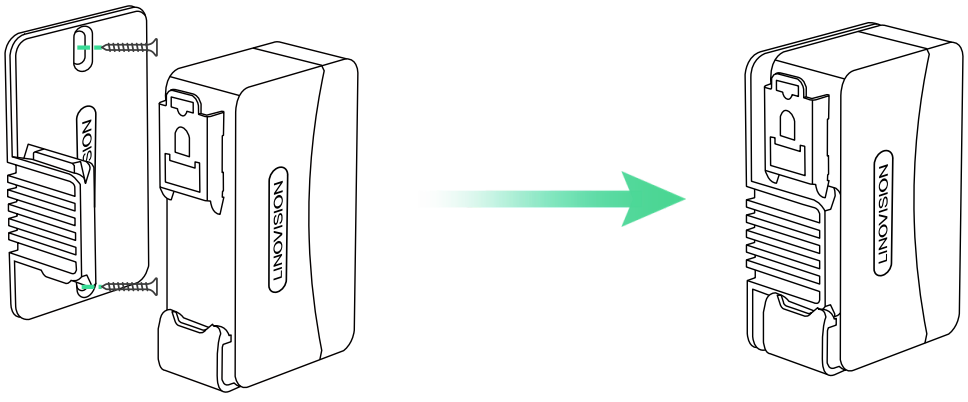
Dimension

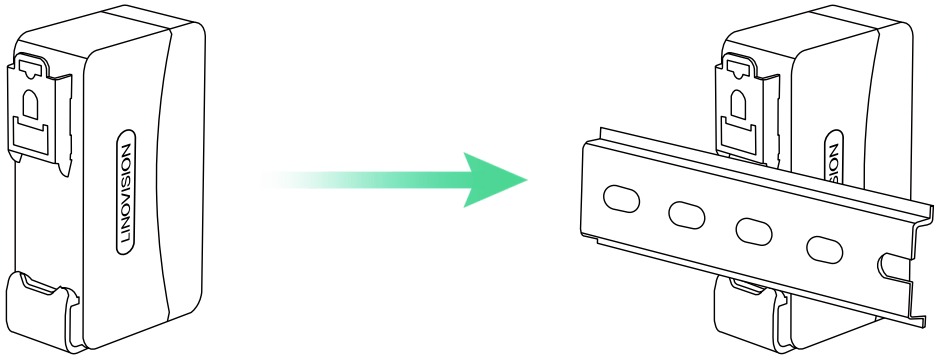


Weight:79g (0.174 lb)

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Installation





DIN-rail Installation & Wall Mounting

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Package Contents



UltraReach EOC-T3



UltraReach EOC-R3



Wall Mounting Accessory



Screw Bag



Quick Guide