

ED3538

強固級10/100BASE-TX PoL/PoE以太網路延伸器(雙絞線)



產品介紹

The ED3538 Hardened Ethernet Extender utilizes EtherWAN's exclusive Power over Link (PoL) technology to deliver both PoE power and Ethernet communications over a single legacy twisted pair cable, such as a telephone line. The ED3538 PoL solution is comprised of one transmitter and one receiver working together to provide reliable communications and power to remote PoE Powered Devices such as IP cameras, wireless access points, emergency intercoms, or VoIP phones.

With just the transmitter connected to power, the ED3538 provides a maximum of 30 watts of power and a bandwidth of 100Mbps to the ED3538 receiver, at distances up to 300 meters. Under this setup, transmission over longer distances can be achieved with lower data and power throughput — up to 1200 meters at a data rate of 20Mbps and 5 watts of power. However, for applications that require even longer distances, the ED3538 can be connected to power at both the transmitter and the receiver unit, increasing the transmission distance to a remarkable 2200 meters, with a data rate of 1Mbps and a full 30 watts. The current data transmission rate and power sourcing equipment output is displayed by LED indicators.

The ED3538 is highly resistant to electromagnetic interference, shock, and vibration, ensuring connection reliability even in harsh environments.

EtherWAN — "When Connectivity is Crucial."

產品亮點

Power over Link™ up to 1.2 km (3936 ft.)

- » Over an 1200 meters long RJ11 cable, a guaranteed 5 watts power with 20Mbps bandwidth is delivered to the receiving side

Ethernet extension solution with high transmission data rate up to 100Mbps

- » Up to 300 meters transmission distance with 100Mbps data rate

Transmission rate and PSE output power indicator LEDs

- » Six transmission rate LEDs and three PoE/PSE output power LEDs on the front panel

產品規格

技術

標準

- IEEE 802.3 10BASE-T
- IEEE 802.3u 100BASE-TX
- IEEE 802.3x full duplex and flow control
- IEEE 802.3af/at PoE/PSE

Protocols

- Transparent to higher layer protocols

傳輸型式

- IEEE 802.3x Full-duplex flow control
 - Auto-Negotiation
 - Auto MDI/MDIX
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電源

輸入電壓

- Terminal Block: 46-57VDC
- DC JACK: 48VDC
- 2.5A@48VDC (Peak current 3.26A)

電力功耗

- Max. 65W with Power over Link™ (PoL) function enabled
- ED3538T: Max. 5W (without PoL/PoE)
- ED3538R: Max. 5W (without PoL/PoE), Max. 35W (with PoE only)

Protection

- Overload current protection
 - Reverse polarity protection
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機構

機殼

- Aluminum case
- IP30

尺寸

- 50 x 110 x 135mm (W x D x H)
(1.97" x 4.33" x 5.31")

重量

- 0.8Kg (1.76lbs.)

安裝方式

- DIN-Rail (Top hat type 35mm), Panel or Rack mounting

介面

乙太網路埠

- ED3538T/R: 1 x 10/100BASE-TX Full-duplex RJ-45 port
- ED3538R: 1 x PoE/PSE port
- Speed: 10/100Mbps
- Cable: 100BASE-TX, UTP CAT. 5 (4-pair wire)
- Distance: 100 meters (328ft.)

Ethernet Extender Port

- 1 x RJ11 port
- 1 x 2-pin Terminal Block (Wire range: 12-30AWG)

DIP Switch

- ED3538T: PoL: On/Off, Type: Perf/Std
- ED3538R: Mode: Loc/Rmt, Type: Perf/Std

LED 指示燈號

- Per Unit: Power
- Per 10/100TX Port: Link/Activity, Full-duplex
- Line Speed: Six indicators for 100/80/60/40/20Mbps and Link below 20Mbps
- PoE: Power over Ethernet function availability

► Speed/Distance/PoE Output Reference

* PoL™ Enabled

Distance	Data Rate	ED3538R PoE Output
300m	100Mbps	30.0W
400m	90Mbps	15.4W
600m	60Mbps	14.0W

800m	45Mbps	9.5W
1000m	35Mbps	7.0W
1200m	20Mbps	5.0W

*** PoL™ Disabled (Power Supply Applies on 3538R)**

Distance	Data Rate	ED3538R PoE Output
1400m	15Mbps	30.0W
1600m	10Mbps	30.0W
1800m	3Mbps	30.0W
Up to 2200m	1Mbps	30.0W

Note: Reference performance on 24AWG copper wire (0.5mm diameter, 1-pair wire, Cable impedance: 100ohm)

環境

工作溫度

- -40 to 75°C (-40 to 167°F)
- Tested @ -40 to 85°C (-40 to 185°F)

儲存溫度

- -40 to 85°C (-40 to 185°F)

工作濕度

- 5% to 95% (無凝結)

通過認證

ISO

- Manufactured in an ISO 9001 facility

Safety

UL 60950-1
IEC 60950-1

EMI

FCC Part 15B Class A
EN 61000-6-4
EN 55022

EN 61000-3-2

EN 61000-3-3

EMS

EN 61000-6-2

- EN 61000-4-2 (ESD Standards)
- EN 61000-4-3 (Radiated RFI Standards)
- EN 61000-4-4 (Burst Standards)
- EN 61000-4-5 (Surge Standards)
- EN 61000-4-6 (Induced RFI Standards)
- EN 61000-4-8 (Magnetic Field Standards)

Environmental Test Compliance

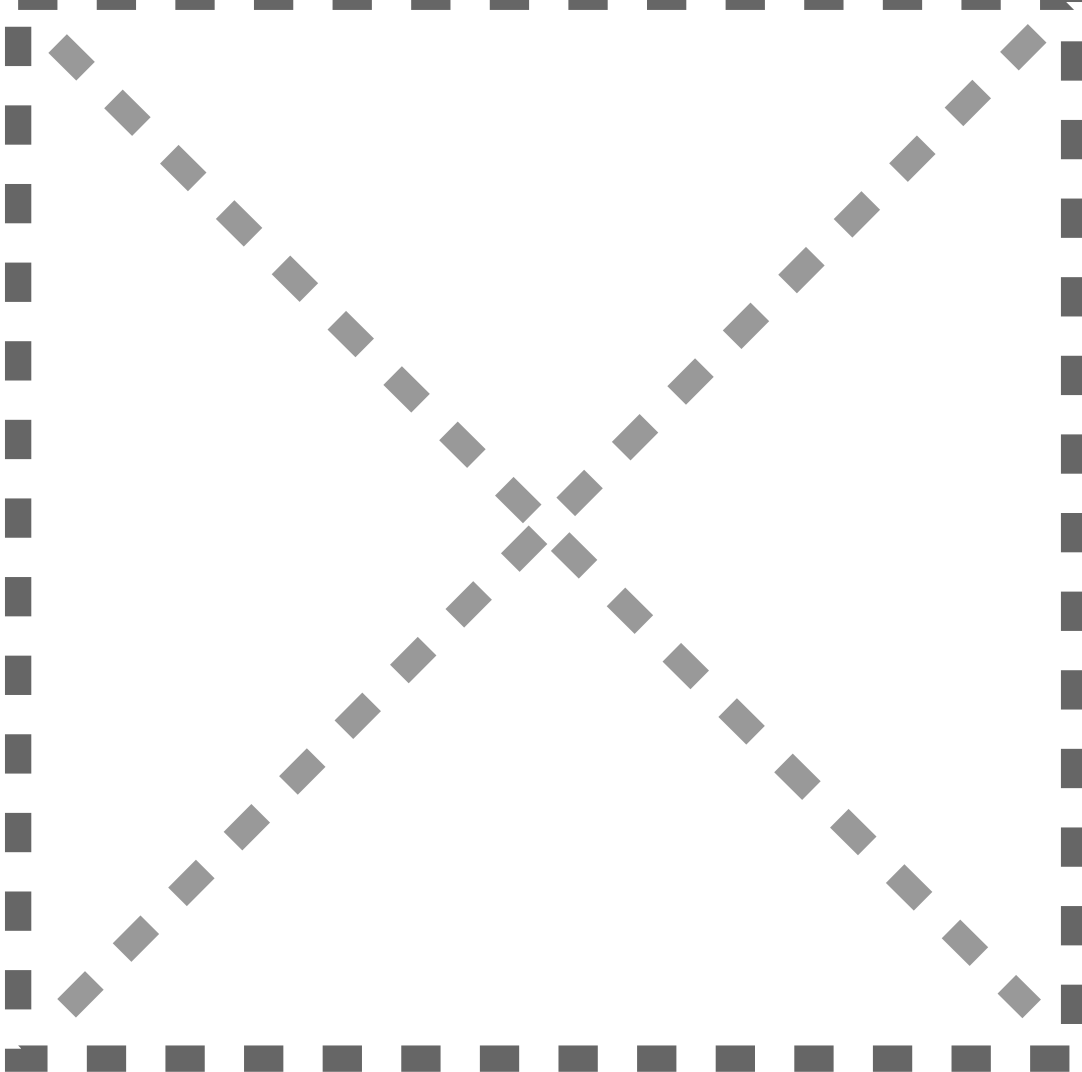
IEC 60068-2-6 Fc (Vibration)

IEC 60068-2-27 Ea (Shock)

IEC 60068-2-32 Ed (Free fall w/package)

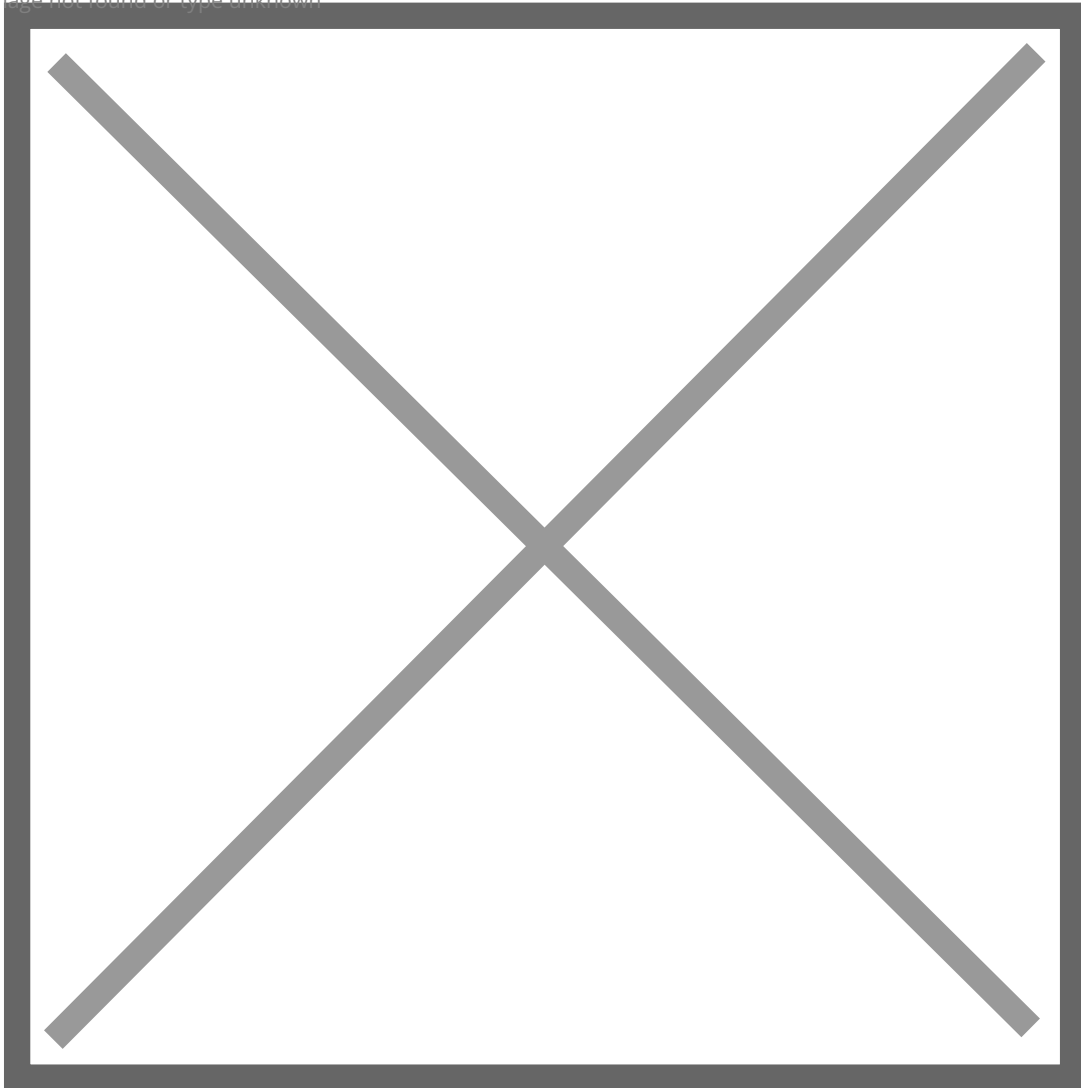
產品應用圖

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產品尺寸圖

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訂購型號

型號

ED3538	Hardened PoL/PoE Ethernet Extender over Copper Wires (Including one ED3538T and one ED3538R)
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* ED3538T is the power transmitter of PoL and ED3538R is the power receiver of PoL.

* DIN-Rail mounting kit included.

Optional Power Supplies

EDR-120-48	120W/2.5A DIN-Rail 48VDC Industrial Power Supply
NDR-120-48	120W/2.5A DIN-Rail 48VDC Industrial Power Supply
SDR-480-48	480W/10A DIN-Rail 48VDC Industrial Power Supply

