ED3238

10/100BASE-TX IEEE 802.3af PoE Ethernet Extender over Coaxial Cable



Overview

This product is discontinued as of 28th August 2020.click here for alternative product.

The ED3238 Ethernet Extender utilizes EtherWAN's exclusive Power over Link (PoL) technology to deliver both PoE power and Ethernet communications over a single legacy coaxial cable. The ED3238 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 an IP cameras, wireless access points, emergency intercoms, or VoIP phones.

When using RG6 coaxial cable, the ED3238 transmitter provides a maximum of 15.4 watts of power and a bandwidth of 100Mbps to the ED3238 receiver, at a distance of up to 180 meters. If RG11 coaxial cable is used, the maximum transmission distance is extended to 250 meters.

The ED3238 is highly resistant to electromagnetic interference, shock, and vibration, ensuring connection reliability even in harsh environments. Its compact size makes it easy to install in areas where space is limited.

EtherWAN — "When Connectivity is Crucial."

Spotlight

Power over Link™ up to 180m (590 ft.)

» A superb 15.4 watts power with with 100Mbps bandwidth is delivered to the receiving side by 30m (min.) or 180m (max.) long coaxial cable.

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

» Up to 180 meters transmission distance with 100Mbps data rate

Powered by IEEE 802.3at Devices

» ED3238 transmitter side can be powered either by an IEEE 802.3at PoE/PSE device or a 57VDC adaptor
* Operating distance: 30 to 180m

Specifications

Technology

Standards

• IEEE 802.3 10BASE-T
• IEEE 802.3u 100BASE-TX
• IEEE 802.3af PoE/PSE

Forward and Filtering Rate

• 1,488,100pps for 1000Mbps

Processing Type

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

Power

Input

• DC Jack: 57VDC
• ED3238T PoE/PD Port: 50-57VDC

Power Consumption

• Device: Max. 6W
• PoE Power Budget: 15.4W max. (depending on power input)

Input Voltage v.s. Output Power

DC Jack Input Voltage	RG6/U 18AWG CCS	ED3238R PoE/PSE Output Power	RG1114AWGCCS	ED3238R PoE/PSE Output Power
50VDC	180m	5.5W	250m	11W
51VDC	180m	7.0W	250m	13W
52VDC	180m	9.0W	250m	15W
52VDC	180m	10.5W	250m	16W
54VDC	180m	12.0W	250m	17W
55VDC	180m	14.0W	250m	17W
56VDC	180m	15.4W	250m	18W
57VDC	180m	15.4W	250m	18W

Mechanical

Casing
• Aluminum Case
• IP30

Dimensions
• 46 x 98 x 25mm (W x D x H)
(1.81"x 3.86" x 0.98")

Weight
• 0.1Kg (0.221lbs.)

Installation
• Panel or Rack Mounting

Interface

Ethernet Port
• ED3238T/R: 1 x RJ-45 port
• ED3238T/R: 1 x PoE/PD port
• Speed: 10/100Mbps
• Distance: 100 meters (328ft.)
• Cable: 100BASE-TX: UTP CAT. 5 (4-pair wire)

Ethernet Extender Port
• Port: One 75Ω BNC Port (with F-type Connector)
• Cable: Coaxial Cable (5C2V/RG6/U)
• Distance:
250m (820ft) RG11 AWG 14 CCS Coaxial Cable
180m (590ft) RG6/U AWG 18 CCS Coaxial Cable
120m (394ft) RG59 Coaxial Cable

LED Indicators
• Power: Power Status
• Link/Activity: Data transmission and power delivery
• PoE: PD status

Environment

Operating Temperature
• -10 to 50°C (14 to 122°F)

Storage Temperature
• -20 to 70°C (-4 to 158°F)

Ambient Relative Humidity

• 5% to 95% (non-condensing)

Regulatory Approvals

ISO

• Manufactured in an ISO 9001 facility

Safety

UL 60950-1

IEC 60950-1

EMI

CE

EN 55022

EN 55024

EN 61000-3-2

EN 61000-3-3

FCC Part 15B Class A

VCCI

EMS

EN 61000-6-2

• EN 61000-4-2 (ESD Standards)

• EN 61000-4-3 (Radiated RFI Standards)

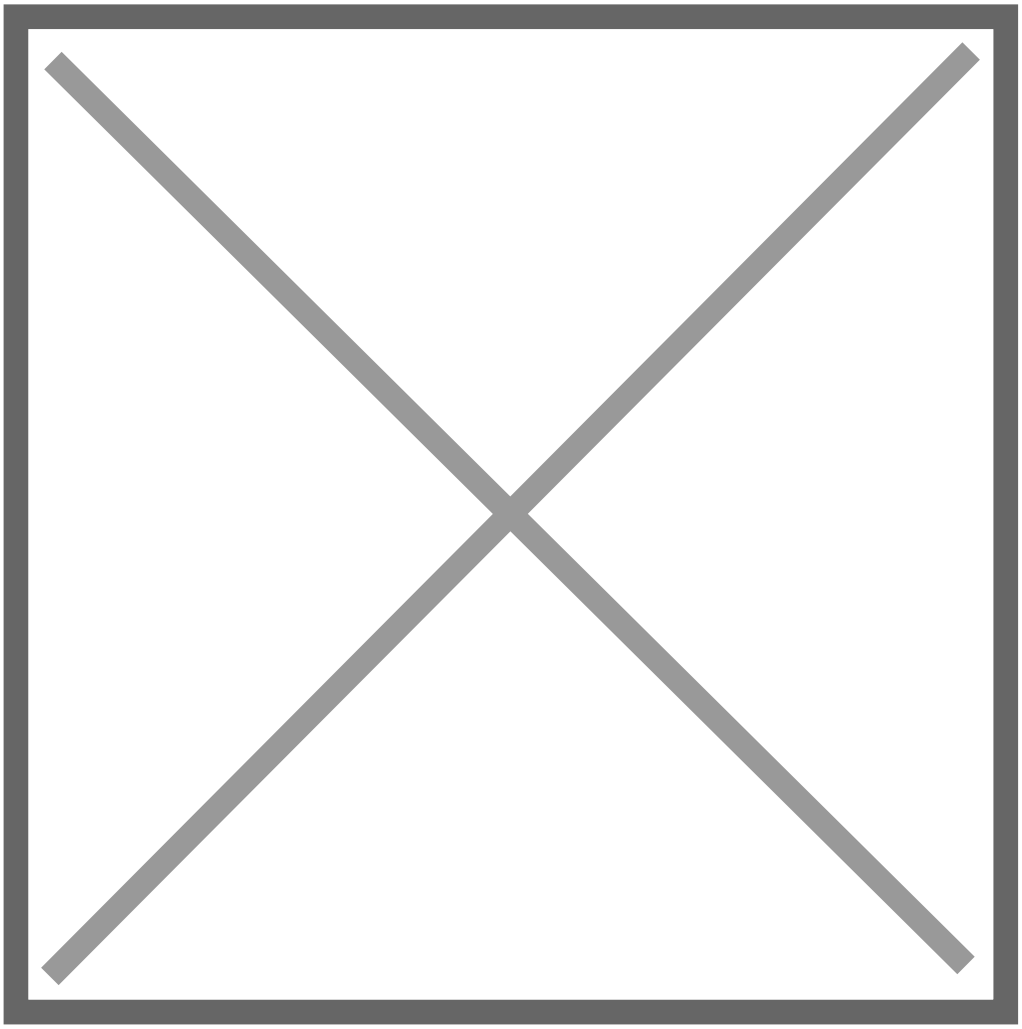
• EN 61000-4-4 (Burst Standards)

• EN 61000-4-5 (Surge Standards)

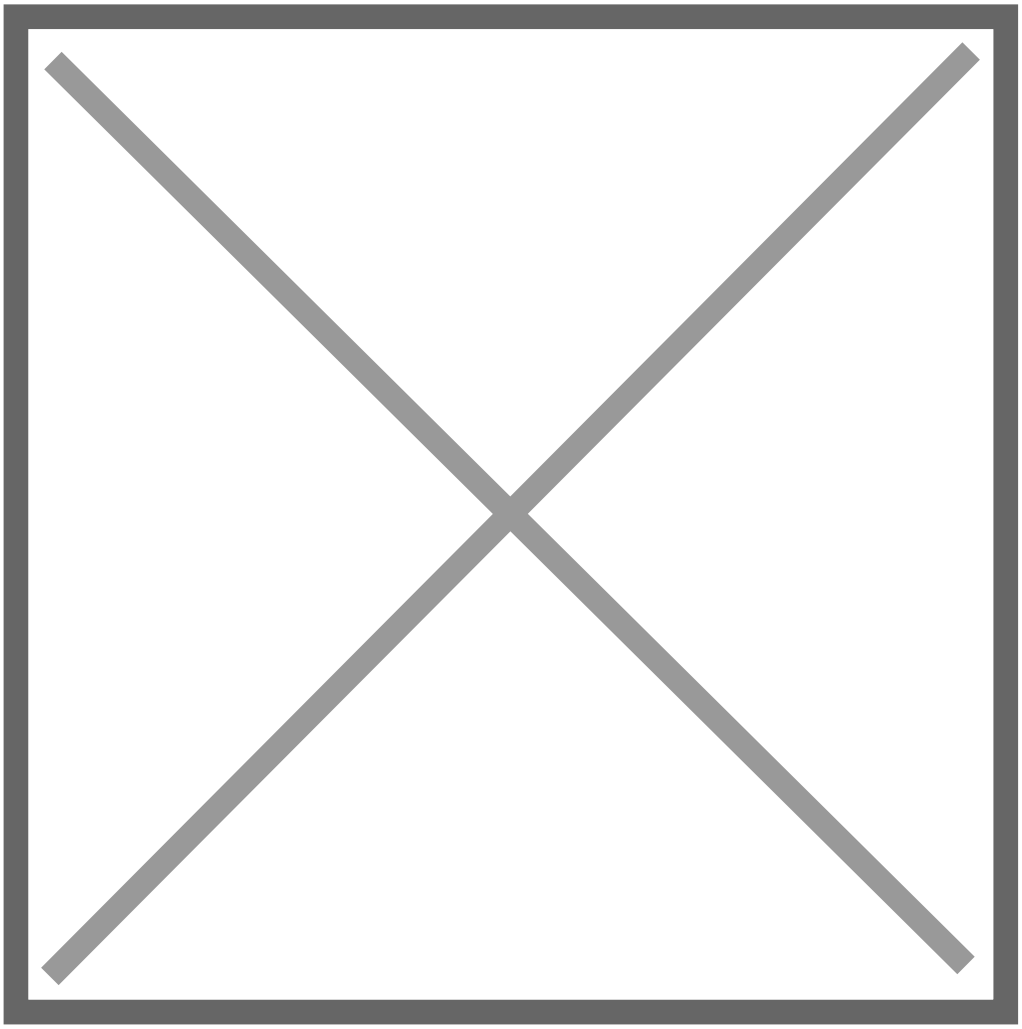
• EN 61000-4-6 (Induced RFI Standards)

• EN 61000-4-8 (Magnetic Field Standards)

Application



Dimensions



Ordering Info

Model

ED3238-TRU	PoL/PoE Ethernet extender over coaxial cable (including one ED3238T, one ED3238R and one 57VDC adaptor, USA type)
ED3238-TRE	PoL/PoE Ethernet extender over coaxial cable (including one ED3238T, one ED3238R and one 57VDC adaptor, Europe type)
ED3238-TRX	PoL/PoE Ethernet extender over coaxial cable (including one ED3238T and one ED3238R)



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