

ED3638

広温度範囲対応産業用 10/100BASE-TX PoL™/PoE 同軸ケーブル イーサネット エクステンダー



概要

The ED3638 Hardened 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 ED3638 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 ED3638 provides a maximum of 30 watts of power and a bandwidth of 100Mbps to the ED3638 receiver, at distances up to 400 meters. Under this setup, transmission over longer distances can be achieved with lower data and power throughput — up to 1800 meters at a data rate of 15Mbps and 4 watts of power. However, for applications that require even longer distances, the ED3638 can be connected to power at both the transmitter and the receiver unit, increasing the transmission distance to a remarkable 2400 meters, with a data rate of 4Mbps and a full 30 watts. The current data transmission rate and power sourcing equipment output is displayed by LED indicators.

The ED3638 is highly resistant to electromagnetic interference, shock, and vibration, ensuring connection reliability even in harsh environments.

EtherWAN — "When Connectivity is Crucial."

特長

Power over Link™ up to 1.8 km (5905 ft.)

» Over an 1800 meters long coaxial cable, a guaranteed 4 watts power with 15Mbps bandwidth is delivered to the receiving side

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

» Up to 400 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

仕様

技術規格

Standards

- 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

Processing Type

- IEEE 802.3x Full-duplex flow control
-

電源

電源電圧

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

消費電力

- Max. 65W with Power over Link (PoL) function enabled
- ED3638T: Max. 5W (without PoL/PoE)
- ED3638R: Max. 5W (without PoL/PoE), Max. 35W (with PoE only)

保護

- 過電流保護
 - 逆極性保護
-

物理仕様

筐体

- アルミケース
- IP30

寸法

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

重量

- 0.8Kg (1.76lbs.)

取付方法

- DIN-Rail (Top hat type 35mm), Panel or Rack Mounting
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インターフェース

イーサネットポート数

- ED3638T/R: 1 x RJ-45 port, 10/100BASE-TX Full-duplex
- ED3638R: 1 x PoE/PSE port
- Auto-Negotiation, Auto-MDI/MDIX
- Speed: 10/100Mbps
- Distance: 100 meters (328ft.)
- Cable: 100BASE-TX: UTP Cat. 5 (4-pair wire)

イーサネットエクステンダーポート数

- Port: One 75Ω BNC Port (with F-type connector)
- Cable: Coaxial Cable (5C2V/RG6)

DIP スイッチ

- ED3638T: PoL: On/Off, Type: Perf/Std
- ED3638R: Mode: Loc/Rmt, Type: Perf/Std

LED 表示

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

▶ 速度/基準距離

* PoL™ Enabled

Distance	Data Rate	ED3638R PoE Output
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400m	100Mbps	30.0W
800m	60Mbps	15.4W
1000m	50Mbps	12.0W
1200m	45Mbps	8.0W
1600m	20Mbps	6.0W
1800m	15Mbps	4.0W

*** PoL™ Disabled (Power Supply Applies on ED3638R)**

Distance	Data Rate	ED3638R PoE Output
2000m	9Mbps	30.0W
2200m	6Mbps	30.0W
Up to 2400m	4Mbps	30.0W

環境条件

使用温度範囲

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

保存温度範囲

- -40 to 85°C (-40 to 185°F)

使用湿度範囲

- 5% to 95% (結露なきこと)

信頼性認証

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)

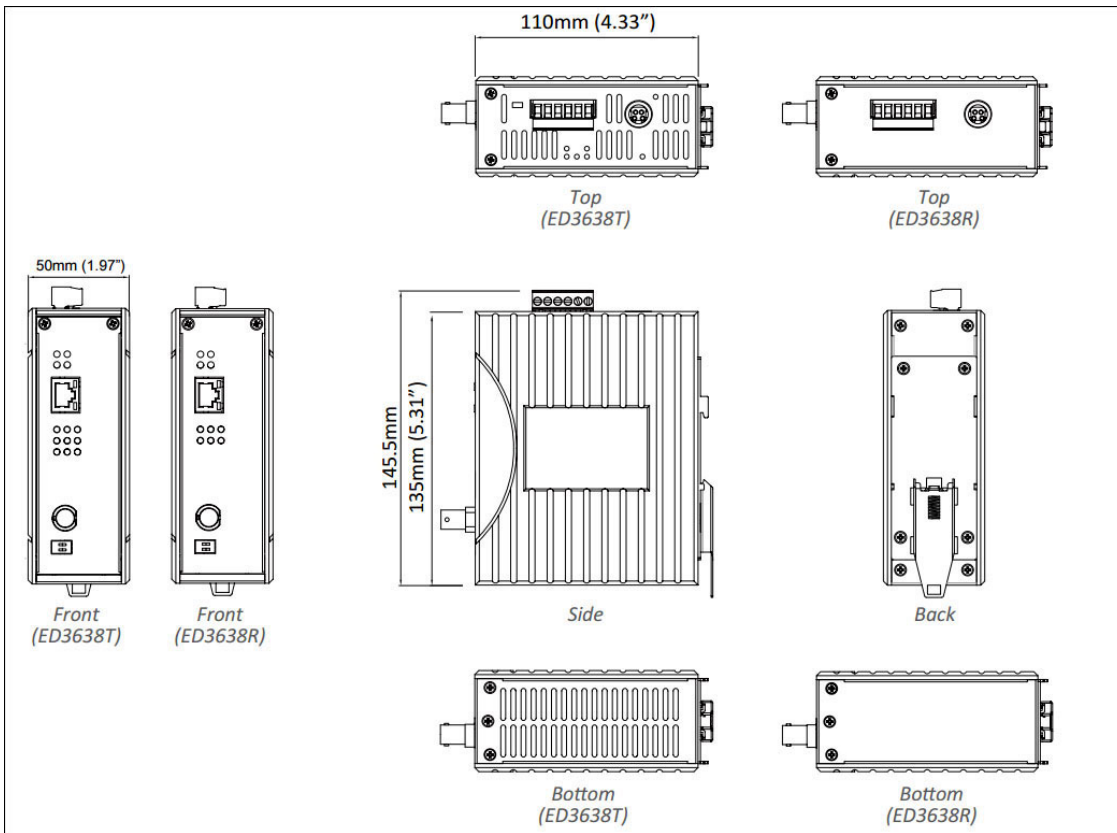
Environmental Test Compliance

IEC 60068-2-6 Fc (Vibration Resistance)

IEC 60068-2-27 Ea (Shock)

IEC 60068-2-32 Ed (Free Fall)

寸法図



製品型番

型番

ED3638	Hardened PoL/PoE Ethernet Extender over Coaxial Cable (Including one ED3638T and one ED3638R)
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* ED3638T is the power transmitter of PoL and ED3638R is the power receiver of PoL.

* DINレールマウントキットを含む。

電源装置 オプション

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

