

ED3331 Series

10/100Base-TX Industrial Ethernet Extender Over Coaxial

NEW



Overview

The ED3331 is used in pairs to extend Ethernet connectivity over existing coaxial environment. The ED3331 is a point-to-point Ethernet Extender that efficiently extends 10/100 Ethernet circuits to over 200M (656ft.) up to 85Mbps using existing coaxial cable, and 1Mbps transmit performance when the distance is up to 2,600 meters (8,530ft.). The ED3331 will allow Ethernet connectivity in existing facilities without pulling extra cable. This is the perfect solution to Ethernet on the factory floor where systems have been upgraded from slower serial communications to Ethernet networking. Installation is easy with a single switch setting which one end is set for local and the other remote.

Features

- ▶ Operates transparent to higher layer protocols
- ▶ Ethernet Port: 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- ▶ Ethernet Extender Port: Symmetrical on the VDSL, High-speed Full-duplex 85Mbps communications link over existing coaxial cable
- ▶ Supports DIP switch to select Local or Remote side
- ▶ Ten reference speeds supports Up to 85 Mbps @ about 200 meters (656ft.), Down to 1 Mbps @ about 2600 meters (8,530ft.)
- ▶ -10°C to 60°C (14°F to 140°F) operating temperature range
- ▶ Hardened aluminum case
- ▶ Supports DIN-Rail, Wall Mounting installation
- ▶ Compatible with EMC1600 Media Converter Chassis

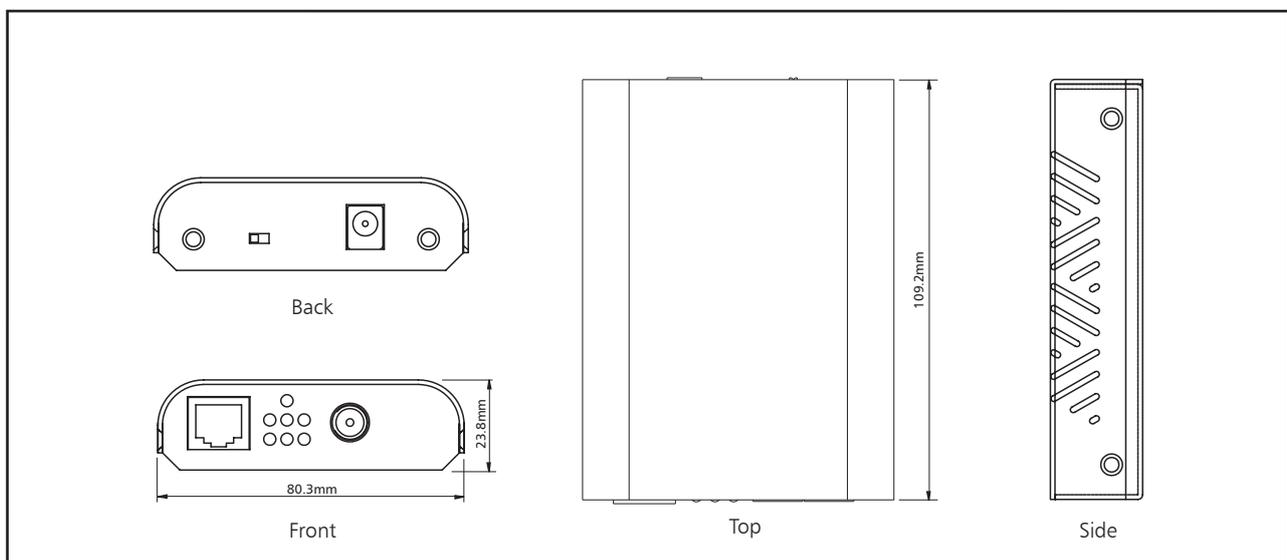
Ordering Information

ED3331-00Z 10/100Base-TX Industrial Ethernet Extender Over Coaxial

External Power Adapter Options:

- (Z) = A : With external power adapter for AU
- E : With external power adapter for EU
- J : With external power adapter for JP
- K : With external power adapter for UK
- U : With external power adapter for USA

Diagrams



Specifications

Technology

Standards:

- IEEE802.3 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3x, Ethernet over VDSL

Protocols:

- Transparent to higher layer protocols

Processing Type:

- Half-duplex back-pressure and IEEE802.3x Full-duplex flow control

Power

Input:

- Input Voltage: 12VDC

Mechanical

Casing:

- Aluminum case

Dimensions:

- 80.3mm (W) x 109.2mm (D) x 23.8mm (H)
(3.16" (W) x 4.30" (D) x 0.94" (H))

Weight:

- 150g (0.33lb.)

Installation:

- DIN-Rail(Top hat type 35mm), Wall Mounting
- EMC1600 Chassis

Interface

Ethernet Port:

- Port: One RJ-45 port, 10/100Base-TX Full/Half-duplex Auto-Negotiation, Auto-MDI/MDIX
- Distance: 100meters (328ft.)
- Cable: 10Base-T: UTP CAT. 3, 4, 5 (2-pair wire)
100Base-TX: UTP CAT. 5 (2-pair wire)

Ethernet Extender Port :

- Port: One Coaxial Port
- Speed Display: 1/5/10/20/30/40/50/60/70/75Mbps
- Max. Distance: 2,600meters (8,530ft.)
- Cable: Coaxial Cable (5C2V / RG6AU)

Speed / Distance Reference:

Speed	Distance
1-5Mbps	2,600M (8,530ft.)
6-10Mbps	2,400M (7,874ft.)
11-16Mbps	2,000M (6,561ft.)
17-20Mbps	1,800M (5,905ft.)
21-29Mbps	1,600M (5,249ft.)
30-43Mbps	1,400M (4,593ft.)
44-54Mbps	1,200M (3,937ft.)
55-63Mbps	1,000M (3,280ft.)
64-74Mbps	600M (1,968ft.)
75-85Mbps	200M (656ft.)

DIP switch:

- One DIP switch: Local (CO) or Remote (CPE)

LED Indicators:

- Per Unit: Power Status (Power)
- Per Port: 10/100TX: Link/Activity, Full-duplex
Line: Error, Link, Local, Remote

NOTE:

All speed selections are Symmetrical on the DSL and Full-duplex on the Ethernet.

Environment

Operating Temperature:

- 10°C to 60°C (14°F to 140°F)

Storage Temperature:

- 20°C to 70°C (-4°F to 158°F)

Ambient Relative Humidity:

- 5% to 95% (non-condensing)

Regulatory Approvals

ISO:

- Manufactured in an ISO9001 facility

Safety:

- UL508

EMI:

- FCC Part 15, Class A
- VCCI, Class A
- EN61000-6-3
 - EN55022
 - EN61000-3-2
 - EN61000-3-3

EMS:

- EN61000-6-2
 - EN61000-4-2 (ESD Standards)
Contact: + / - 4KV; Criteria B
Air: + / - 8KV; Criteria B
 - EN61000-4-3 (Radiated RFI Standards)
10V/m, 80 to 1000MHz; 80% AM Criteria A
 - EN61000-4-4 (Burst Standards)
Signal Ports: + / - 1KV; Criteria B
D.C. Power Ports: + / - 2KV; Criteria B
 - EN61000-4-5 (Surge Standards)
Signal Ports: + / - 1KV; Line-to-Line; Criteria B
D.C. Power Ports: + / - 0.5KV; Line-to-earth; Criteria B
 - EN61000-4-6 (Induced RFI Standards)
Signal Ports: 10Vrms @ 0.15~80MHz; 80% AM Criteria A
D.C. Power Ports: 10Vrms @ 0.15~80MHz; 80% AM Criteria A
 - EN61000-4-8 (Magnetic Field Standards)
30A/m @ 50, 60Hz; Criteria A

Environmental Test Compliance:

- IEC60068-2-6 Fc (Vibration Resistance)
5g @ 10~150KHz, Amplitude 0.35mm (Operation/Storage/Transport)
- IEC60068-2-27 Ea (Shock)
25g @ 11ms (Half-Sine Shock Pulse; Operation)
50g @ 11ms (Half-Sine Shock Pulse; Storage/Transport)
- IEC60068-2-32 Ed (Free Fall)
1M (3.281ft.)

