

ED3501 Series

Industrial 10/100BASE-TX Ethernet Extender



Overview

The ED3501 Ethernet extender allows the extension of IP services beyond normal Ethernet distance limitations without changing cables, breaking the 100-meter Ethernet barrier.

The ED3501's design features high shock, vibration, electrical noise immunity, an operating temperature range from -10°C to 60°C, and ruggedized aluminum housing. The ED3501 is the ideal Ethernet extender for environments where connectivity is crucial.

EtherWAN — "When Connectivity is Crucial."

Highlights

+ High Speed Performance

Up to 100Mbps at 300 meters distance
Up to 1Mbps at 2600 meters distance

+ Industrial Operating Temperature

-10 to 60°C (14 to 140°F) operating temperature range design is suitable for installation in outdoor cabinets

Specifications

+ Interface

Ethernet Port

Port: One RJ-45 port
Speed: 10/100Mbps
Distance: 100 meters (328ft.)
Cable: 10BASE-T: UTP Cat. 3, 4, 5 (2-pair wire);
100BASE-TX: UTP Cat. 5 (4-pair wire)

Ethernet Extender Port

Port: One RJ-11/Terminal Block port
Speed: Up to 100Mbps
Distance: 2600 meters (8,530ft.)
Cable: Telephone wire 24AWG (0.5mm diameter, 1-pair wire) or larger

DIP Switch

DIP 1: Auto/Loc
DIP 2: SYM/ASM
DIP 3: Perf./Std.

LED Indicators

Per Unit: Power 1
Per 10/100TX Port: Link/Activity, full-duplex
Line Speed: 100/80/60/40/20Mbps and link below
SYM: Symmetric mode (distance $\leq 1000\text{m}$)
ASM: Asymmetric mode
RMT: Remote mode
LOC: Local mode
Per: On/Performance mode; Off/Standard mode

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

The data rate will vary according to the line quality.

+ Power

Input

12VDC (DC Jack)

Power Consumption

4.56W max. 0.38A@12VDC

Protection

Over Current Protection
Reverse Polarity Protection

+ Physical

Casing Material

Aluminum

IP Rating

IP30

Dimensions

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

Weight

0.15kg (0.33lbs)

Installation Type

DIN-rail mounting (Top hat type 35mm) or wall mounting

+ Regulatory

ISO

Manufactured in ISO-9001 facility

EMI

FCC Part 15B Class A
VCCI Class A
EN 61000-6-4
EN 61000-3-3

EMS

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

Safety

UL 60950-1
EN 60950-1
IEC 60950-1

Vibration

IEC 60068-2-6 Fc

Shock

IEC 60068-2-27 Ea

Free Fall

FED STD 101C Method 5007.1

+ Technology

Standards

IEEE 802.3 10BASE-T

IEEE 802.3u 100BASE-TX

IEEE 802.3x full duplex and flow control

Processing Type

Half-duplex back-pressure and full-duplex flow control

Auto-negotiation

Auto MDI/MDIX

| Distance (m) | Data rate (Mbps) |
|--------------|------------------|
| 300 | 100 |
| 400 | 80 |
| 600 | 60 |
| 800 | 40 |
| ... | ... |
| 2600 | 1 |

+ Environmental

Operating Temp.

-10 to 60°C (14 to 140°F)

Storage Temp.

-20 to 70°C (-4 to 158°F)

Relative Humidity

5% to 95% (non-condensing)

+ Warranty

Length

Limited Lifetime

Details

www.etherwan.com/support/warranty-policy

+ What's Included

Device

Ethernet Extender

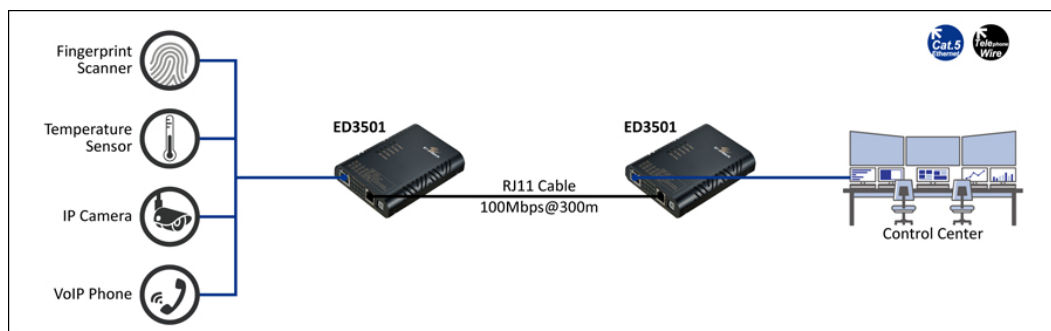
Power

12VDC Power Adapter

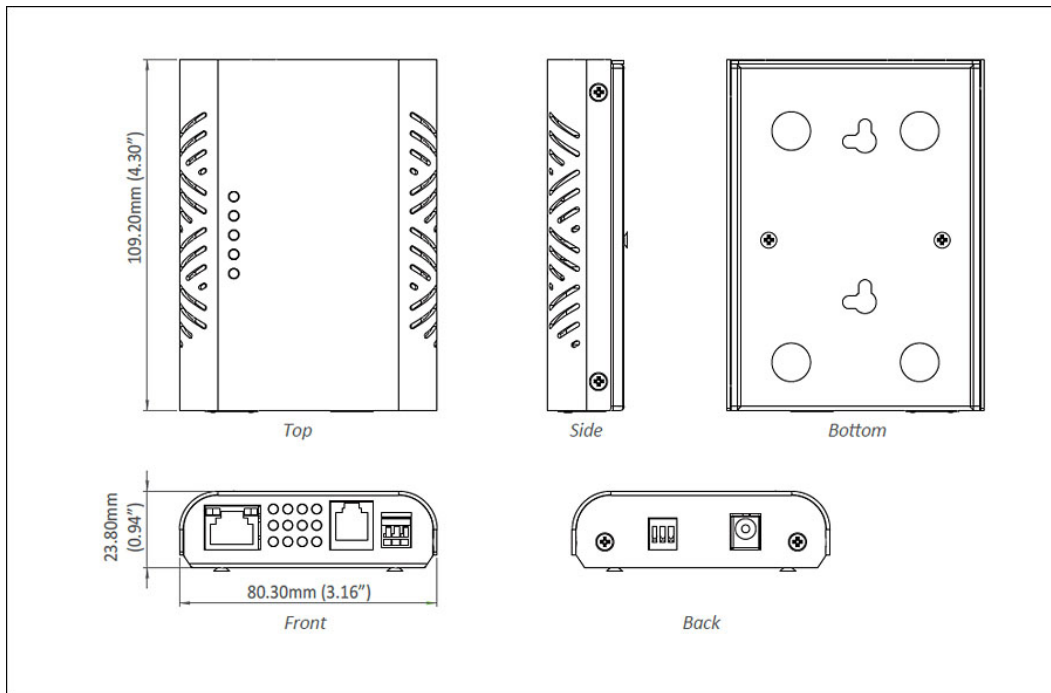
Documentation

Quick Install Guide

Application



Dimensions



Ordering Info

+ Model

| | |
|----------|---|
| ED3501 | 10/100BASE-TX Industrial Ethernet Extender |
| ED3501-D | 10/100BASE-TX Industrial Ethernet Extender with DIN-Rail Mounting Kit |