



Ethernet Connectivity

Simple way for LAN extension

Technology

Application

Product

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Stretch beyond the
100-meter Ethernet distance limit

- Ethernet Extenders over Copper Pair
- Ethernet Extenders over Coaxial Cable
- Ethernet Extenders with IEEE802.3at PoE PSE
- Ethernet Extenders with Management Features

Ethernet Extenders

Extend IP services beyond Ethernet distance limitation without changing cables. We help you break 100-meter Ethernet barrier.

Upgrading an access control and/or surveillance system with new systems that communicate using IP technology can be a monumental task. Changing the wiring infrastructure can be more costly and time consuming than upgrading the entire system.

EtherWAN offers a solution to this dilemma. EtherWAN has developed a line of Ethernet extenders that provide Ethernet connectivity over existing coaxial cable or plain old telephone/communications cable.

Using Ethernet extenders is significantly lower in cost than replacing a cable plant and extends the life of your installed infrastructure.

Operating Data (over Coaxial)

Speed	Reference Distance (RG6A/U & 5C2V)
75-85 Mbps	200m (656ft.)
64-74 Mbps	600m (1,968ft.)
55-63 Mbps	1000m (3,280ft.)
44-54 Mbps	1200m (3,937ft.)
30-43 Mbps	1400m (4,593ft.)
21-29 Mbps	1600m (5,249ft.)
17-20 Mbps	1800m (5,905ft.)
11-16 Mbps	2000m (6,561ft.)
6-10 Mbps	2400m (7,874ft.)
1-5 Mbps	2600m (8,530ft.)

Operating Data (over Copper Pair)

Speed	Reference Distance (24AWG)
50 Mbps	300m (984ft.)
40 Mbps	600m (1,968ft.)
30 Mbps	700m (2,296ft.)
25 Mbps	800m (2,624ft.)
20 Mbps	1000m (3,280ft.)
15 Mbps	1200m (3,936ft.)
10 Mbps	1400m (4,593ft.)
5 Mbps	1600m (5,249ft.)
3 Mbps	1800m (5,904ft.)
1 Mbps	1900m (6,232ft.)

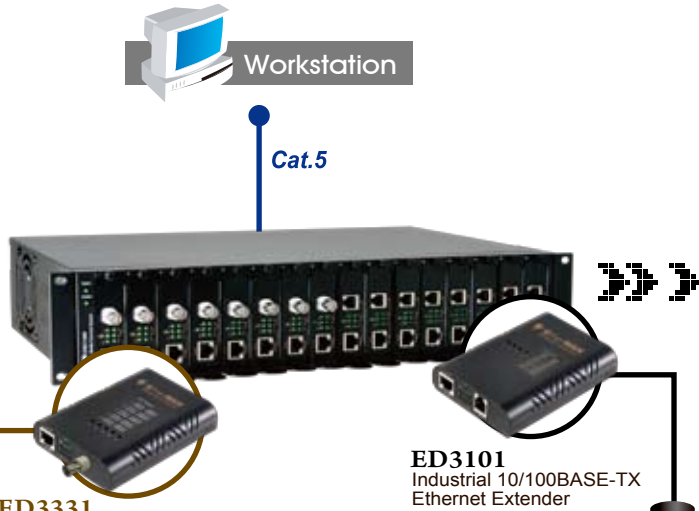


For Coaxial Cable

- ED3341 Hardened 10/100BASE-TX Ethernet Extender
- ED3371 Managed Hardened 10/100BASE-TX Ethernet Extender
- ED3342 PoE Hardened 10/100BASE-TX IEEE802.3at PoE Ethernet Extender
- ED3344 Hardened 10/100BASE-TX M12 Ethernet Extender
- ED3345 Hardened 4-port 10/100BASE-TX Ethernet Extender
- ED3346-02 PoE Hardened 2-Port 10/100BASE-TX IEEE802.3at PoE Ethernet Extender
- ED3346-22 PoE Hardened 4-Port 10/100BASE-TX IEEE802.3at PoE Ethernet Extender



Over Coaxial Cable up to 2600m



ED3331 Industrial 10/100BASE-TX Ethernet Extender

ED3101 Industrial 10/100BASE-TX Ethernet Extender

How it works?

EtherWAN's Ethernet Extenders allow long-distance Ethernet connectivity in existing infrastructure without pulling new cables.

- 1 Minimize your effort & cost - Don't change your existing cables.
- 2 Longer distance - Up to 1.9km (6,232ft) over copper wire or 2.6km (8,530ft) over coaxial cable.
- 3 Hardened design for critical environments - Model selections for -20°C to 60°C or -40°C to 75°C.
- 4 Plug & Play - Connect one unit to one end of the wire and set the DIP switch to Local. Connect another unit to the other end of the wire and set to Remote. When apply power, all devices will be synchronized up in a few seconds. Then you're running with an Ethernet Link.

For Copper Pair

- ED3141 Hardened 10/100BASE-TX Ethernet Extender
- ED3171 Managed Hardened 10/100BASE-TX Ethernet Extender
- ED3142 PoE Hardened 10/100BASE-TX IEEE802.3at PoE Ethernet Extender
- ED3145 Hardened 4-port 10/100BASE-TX Ethernet Extender
- ED3146-02 PoE Hardened 2-Port 10/100BASE-TX IEEE802.3at PoE Ethernet Extender
- ED3146-22 PoE Hardened 4-Port 10/100BASE-TX IEEE802.3at PoE Ethernet Extender
- ED3175 Managed Hardened 8-port 10/100BASE-TX Switch with 2-port Copper Pair Ethernet Extender



Over Copper Pair up to 1900m

Model	RJ-45	Extender	Max. distance	Operating temp.	Model	RJ-45	Extender	Max. distance	Operating temp.
ED3331	1	BNC	2600m	-10°C to 60°C	ED3101	1	RJ11	1900m	-20°C to 60°C
ED3341	1	BNC	2600m	-40°C to 70°C	ED3141	1	RJ11/TB	1900m	-40°C to 75°C
ED3342	1 (PoE)	BNC	2600m	-40°C to 70°C	ED3142	1 (PoE)	RJ11/TB	1900m	-40°C to 75°C
ED3371	1 (Managed)	BNC	2600m	-40°C to 70°C	ED3171	1 (Managed)	RJ11/TB	1900m	-40°C to 75°C
ED3344	1 (M12)	BNC	2600m	-40°C to 75°C	ED3145	4	RJ11/TB	1900m	-40°C to 75°C
ED3345	4	BNC	2600m	-40°C to 75°C	ED3146-02	2 (PoE)	RJ11/TB	1900m	-40°C to 75°C
ED3346-02	2 (PoE)	BNC	2600m	-40°C to 75°C	ED3146-22	4 (2 PoE)	RJ11/TB	1900m	-40°C to 75°C
ED3346-22	4 (2 PoE)	BNC	2600m	-40°C to 75°C	ED3175	8 (Managed)	RJ11/TB	1900m	-40°C to 75°C



* TB: Terminal Block * All Hardened models are tested @ 85 °C