

# Ethernet Extender

Model No: EX3101



ISO 9001# 3EAY025-01

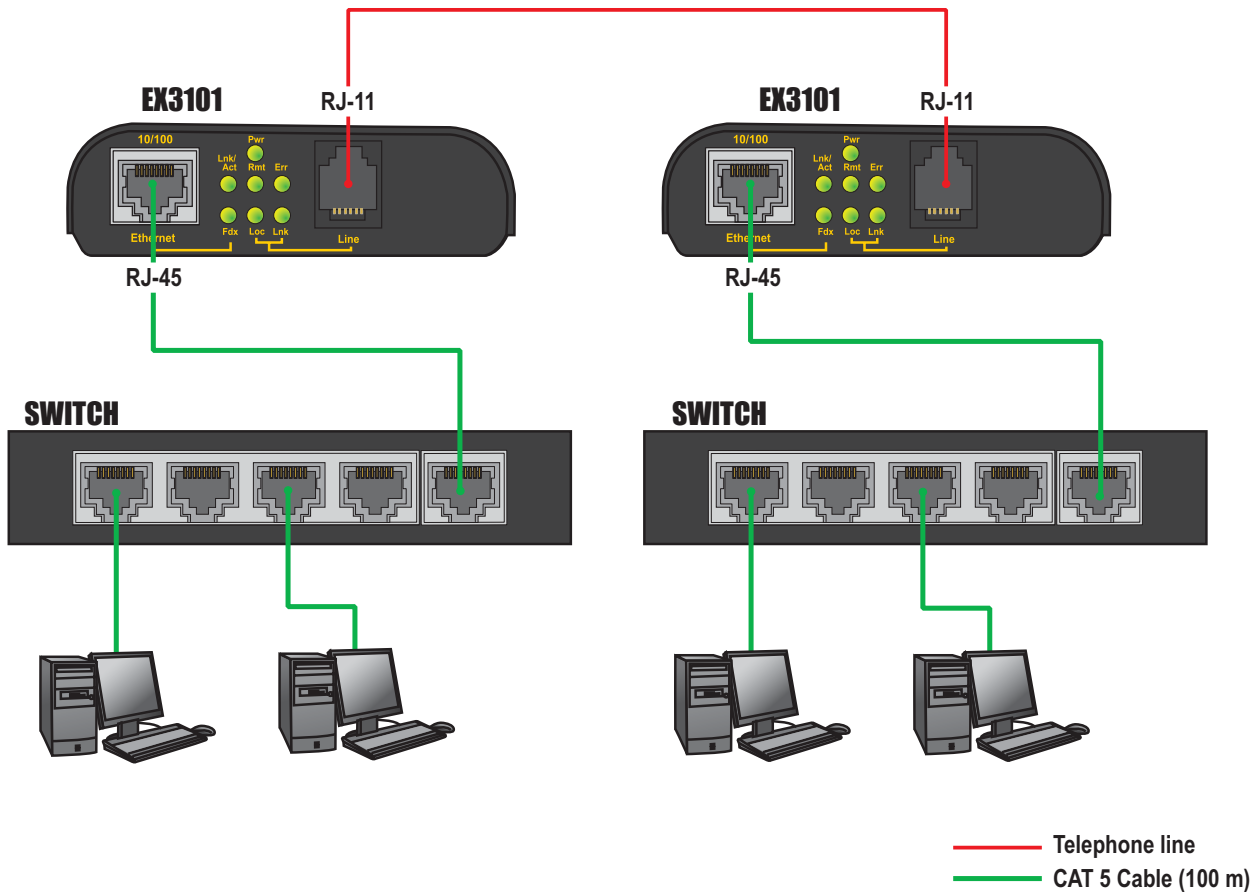
The EX3101 is a point-to-point DSL solution that efficiently extends 10/100 Ethernet circuits to over 600 meters (1,960 feet) at 30 Mbps using existing straight pair copper wire. The EX3101 will allow Ethernet connectivity in existing facilities without pulling extra cable. This is the perfect solution 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, one end is set for local and the other remote. The EX3101 is used in pairs to extend Ethernet connectivity over existing voice grade copper wire.

## Key Features

- High-Speed Full-Duplex 30 Mbps communications link over existing copper cable, Symmetrical on the VDSL
- 8 Speeds with speed indicator LEDs on top of unit  
30 Mbps @ up to 1970 ft., ratchets down to 1 Mbps @ about 6200 ft.
- Operates transparent to high layer protocols such as TCP/IP
- Auto-MDIX and Auto-sensing 10Base-T or 100Base-TX and Full or Half-Duplex on the Ethernet port
- Plug and Play design for simple installation, single switch config.
- Eleven status LEDs for simple monitoring of the device and connection status

## Applications

- Extend LAN connectivity to a remote site or between buildings
- Connect Ethernet over the last mile over existing copper infrastructure
- Connect new controller technology on the factory floor using existing wiring
- Extend Ethernet connectivity from a backbone network to an isolated location via copper wire
- Transmit video and traffic controller information over existing copper wire



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**Ethernet Extender**

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VDSL Ethernet Extender

## Technical Specification

<b>Standards:</b>	<ul style="list-style-type: none"><li>• IEEE802.3 10BASE-T</li><li>• IEEE802.3u 100BASE-TX</li><li>• Ethernet over VDSL</li></ul>
<b>Protocol:</b>	<ul style="list-style-type: none"><li>• Transparent to higher layer protocols</li></ul>
<b>Configuration:</b>	<ul style="list-style-type: none"><li>• One DIP switch set: Local (CO) or Remote (CPE)</li><li>• A link is established between a Local unit and a Remote unit (plug &amp; play)</li></ul>
<b>Ethernet Interface:</b>	<ul style="list-style-type: none"><li>• One RJ-45 connector Auto-MDIX and Auto-sensing 10/100Base-T/TX and Full/Half-duplex</li></ul>
<b>VDSL Copper Interface:</b>	<ul style="list-style-type: none"><li>• One RJ-11 connector VDSL port</li></ul>
<b>Transmission:</b>	<ul style="list-style-type: none"><li>• Ethernet Data Rate: 10/100 Mbps Full/Half-Duplex</li><li>• VDSL line rate: 1/3/5/10/15/20/25/30 Mbps</li></ul>
<b>Cable Connection:</b>	<ul style="list-style-type: none"><li>• RJ-45 (10BASE-T): UTP CAT. 3, 4, 5 (2-pair wire)</li><li>• RJ-45 (100BASE-T): UTP CAT. 5 (2-pair wire)</li><li>• VDSL: Telephone line 24 AWG (0.5 mm diameter, 1-pair wire) or larger</li></ul>
<b>Cable Length:</b>	<ul style="list-style-type: none"><li>• Ethernet: Maximum 100 meters (UTP LAN cable)</li><li>• VDSL: Maximum 1900 meters (6,230 ft, 0.5 mm diameter phone line)</li></ul>
<b>LED:</b>	<ul style="list-style-type: none"><li>• System: Power</li></ul>

	LED	Speed	Distance
1	Green	1 Mbps	1,900M (6,233 ft)
	Amber	3 Mbps	1,700M (5,577 ft)
2	Green	5 Mbps	1,600M (5,249 ft)
	Amber	10 Mbps	1,500M (4,921 ft)
3	Green	15 Mbps	1,400M (4,593 ft)
	Amber	20 Mbps	1,000M (3,280 ft)
4	Green	25 Mbps	800M (2,624 ft)
	Amber	30 Mbps	600M (1,968 ft)

**NOTE:** All speed selections are Symmetrical on the DSL and Full Duplex on the Ethernet.

- Ethernet: Lnk/Act, Fdx
- VDSL: Err, Lnk, Loc, Rmt

## Physical Specification

<b>Power Consumption:</b>	<ul style="list-style-type: none"><li>• External Power Supply Universal 100 - 240 VAC 50 - 60 Hz, 12 VDC 0.2 A</li></ul>
<b>Operating Temperature:</b>	<ul style="list-style-type: none"><li>• 0°C to 65°C</li></ul>
<b>Storage Temperature:</b>	<ul style="list-style-type: none"><li>• -25°C to 70°C</li></ul>
<b>Humidity:</b>	<ul style="list-style-type: none"><li>• 10% to 90% Non-Condensing</li></ul>
<b>Safety:</b>	<ul style="list-style-type: none"><li>• UL 1950</li></ul>
<b>Dimensions:</b>	<ul style="list-style-type: none"><li>• 80.3 mm (W) x 109.2 mm (D) x 23.8 mm (H) (3.2 in. x 4.3 in. x 0.94 in.)</li></ul>
<b>Emissions Compliance:</b>	<ul style="list-style-type: none"><li>• FCC part 15 Class A, CE Mark</li></ul>
<b>Weight:</b>	<ul style="list-style-type: none"><li>• 150g (5.3 oz.)</li></ul>

## Ordering Info

<b>EX3101</b>	<ul style="list-style-type: none"><li>• 10/100TX Ethernet over VDSL Extender</li></ul>
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