

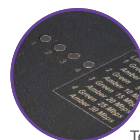
ED3101 Series

Industrial 10/100BASE-TX Ethernet Extender



Value

- › Long distance communication over copper wires supports up to 50Mbps @ 300 meters and 1Mbps @ 1900 meters
- › Supports chassis system installation for easy management and power redundancy



Ten speed indicator LEDs for real-time data rate display

Features

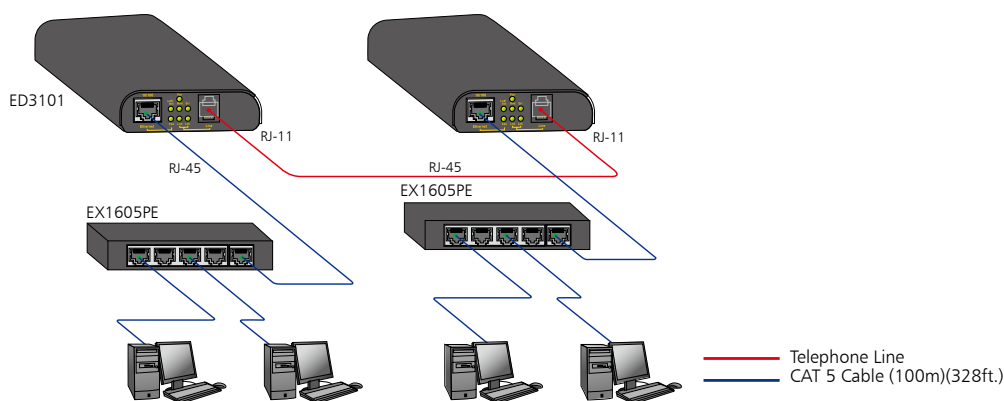
- › Operates transparent to higher layer protocols such as TCP/IP
- › Ethernet Port: 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- › Ethernet Extender (RJ-11) Port: Symmetrical on the VDSL, High speed Full-duplex up to 100Mbps communications link over existing copper telephone wire
- › Supports DIP switch to select Local or Remote side
- › Ten speeds with speed indicator LEDs on top of unit,
 - Up to 50Mbps @ about 300meters (984ft.),
 - 1Mbps @ about 1,900meters (6,232ft.)
- › -20°C to 60°C (-4°F to 140°F) operating temperature range
- › Hardened aluminum case
- › Supports DIN-Rail, Wall Mounting installation or expansion use with EMC1600 media converter chassis system

Ordering Information

ED3101-X	Industrial 10/100BASE-TX Ethernet Extender
ED3101-D-X	Industrial 10/100BASE-TX Ethernet Extender with DIN-Rail mounting kits

External Power Adapter Options:

- (X) = 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
 3C : with external power adapter for China



Specifications

Technology			
Standards	• IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, IEEE802.3x		
Protocols	• Transparent to higher layer protocols		
Processing Type	• Half-duplex back-pressure and IEEE802.3x Full-duplex flow control		
Power			
Input	• Input Voltage: 12VDC		
Power Consumption	• 2.4W Max. 0.2A @ 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 • Speed: 10/100Mbps • Distance: 100meters (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 Port • Speed: 1/3/5/10/15/20/25/30/40/50mbps • Distance: 1900meters (6,232ft.) • Cable: 24 AWG (0.5mm diameter, 1-pair wire) or larger		
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		
	LED	Speed	Distance
1	Green	1Mbps	1,900m(6,232ft.)
	Amber	3Mbps	1,800m(5,904ft.)
2	Green	5Mbps	1,600m(5,294ft.)
	Amber	10Mbps	1,400m(4,593ft.)
3	Green	15Mbps	1,200m(3,936ft.)
	Amber	20Mbps	1,000m(3,280ft.)
4	Green	25Mbps	800m(2,624ft.)
	Amber	30Mbps	700m(2,296ft.)
4&2	Amber	40Mbps	600m(1,968ft.)
4&3	Amber	50Mbps	300m(984ft.)
NOTE: All speed selections are Symmetrical on the DSL .			

Environment	
Operating Temperature	-20°C to 60°C (-4°F to 140°F) - Tested @ -20°C to 70°C (-4°F to 158°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	UL60950-1
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 - Air: + / - 8KV - EN61000-4-3 (Radiated RFI Standards) 10V/m, 80 to 1000MHz; 80% AM - EN61000-4-4 (Burst Standards) - Signal Ports: + / 2KV - D.C. Power Ports: + / 2KV - EN61000-4-5 (Surge Standards) - Signal Ports: + / - 1KV; Line-to-Line - D.C. Power Ports: + / - 0.5KV; Line-to-earth - EN61000-4-6 (Induced RFI Standards) - Signal Ports: 10Vrms @ 0.15 - 80MHz; 80% AM - D.C. Power Ports: 10Vrms @ 0.15 - 80MHz; 80% AM - EN61000-4-8 (Magnetic Field Standards) 30A/m @ 50, 60Hz
Environmental Test Compliance	- IEC60068-2-6 Fc (Vibration Resistance) 5g @ 10 - 150Hz, 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) - FED STD 101C Method 5007.1 (Free fall w/ package) -Tested with Cross Weight and Drop High standard table

Diagrams

Unit: mm

