

# 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

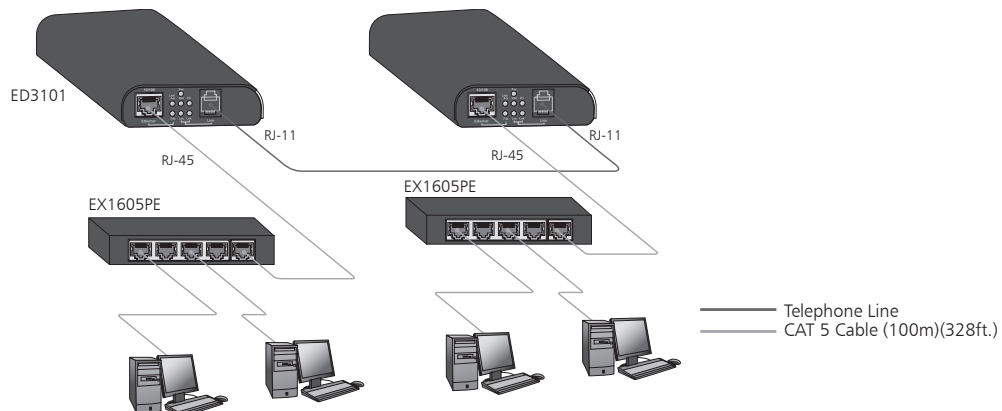
- Operates transparent to higher layer protocols such as TCP/IP
- Ethernet Port: 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- Ethernet Extender (RJ-11) Port: Symmetrical on the VDSL, High speed Full-duplex 50Mbps communications link over existing copper telephone wire
- Supports DIP 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:

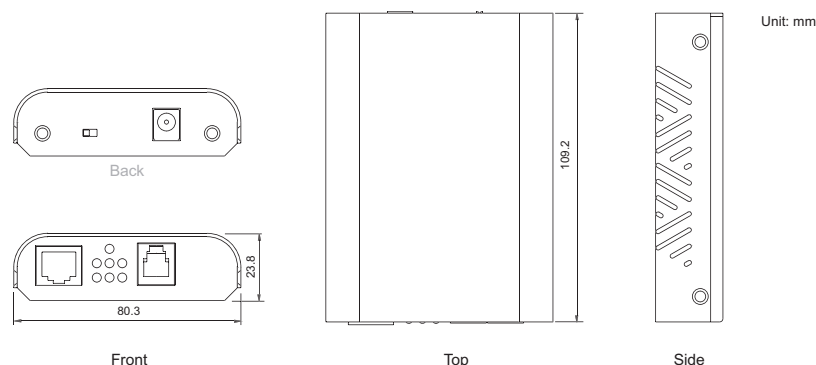
- (X) = A : with external power adapter for AU
- E : with external power adapter for EU
- J : with external power adapter for JP
- K : with external power adapter for UK
- U : with external power adapter for USA



## 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		
Power	2.4W Max.		
Consumption	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	Port: One RJ-11 Port		
Extender 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 and Full duplex on the Ethernet.			

## Dimensions



Environment	
Operating Temperature	-20°C to +60°C (-4°F to 140°F)
Storage Temperature	Tested @ -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; 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: + / 2KV; 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 - 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) *IEC60068-2-32 Ed (Free Fall) 1M (3.281ft.)