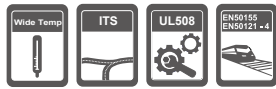


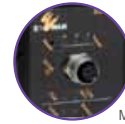
ED3344 Series

Hardened 10/100/BASE-TX M12 Ethernet Extender over Coaxial Cable



Value

- › Complies with EN50155 standard requirement for Rolling Stock Ethernet applications
- › Complies with EN50121-4 standard requirement for Railway station Ethernet applications



M12 Ethernet port provides strong mechanical secure capacity

Features

- › Complies with NEMATS1 & TS2 Environmental requirements for Traffic control equipment
- › Complies with EN50155, EN50121-3-2 and EN50121-4 Railway application requirements
- › Specific design for industrial communication application UL with UL508 safety certification
- › Complies with IEC61000-6-2 EMC Generic standard immunity for Industrial environment
- › Ethernet Port: 10/100Mbps-Full-duplex, Auto-Negotiation, Auto-MDI/MDIX
- › M12 Ethernet port provides strong mechanical secure capacity
- › Ten speeds with speed indicator LEDs on front panel of unit
- › Compatible with ED3331, ED3341 and ED3371
- › Ethernet Extender Port: Symmetrical on the VDSL, High-speed Full duplex up to 85 Mbps communications link over existing coaxial cable
 - Up to 85Mbps @ about 200meters (656ft.)
 - 1Mbps @ about 2,600meters (8,530ft.)
- › -40°C to 75°C (-40°F to 167°F) operating temperature range
- › Redundant power inputs with Terminal Block and Latched DC Jack
- › Support DIP switch to select Local or Remote side
- › Hardened aluminum case
- › Supports DIN-Rail Panel Rack Mounting installation

Ordering Information

ED3344-00B	Hardened 10/100Base-TX M12 Ethernet Extender over Coaxial Cable
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Power Supply : (Optional)

*Option A - The Terminal Block type external power supplies are not included. Please order the following part numbers:

DR-30-24, DR-60-24, DR-75-24, DR-120-24 or 41-136046-X (X)=1: US, 2: EU, 3: UK, 4: AU, 5: JP

**Option B - The external power adapters and power cords are not included. Please order the following part numbers:

41-136044-X (X)=1: US, 2: EU, 3: UK, 4: AU, 5: JP

Installation Type : Optional Panel mount kit, part number: KP-AA96-480



Specifications

Technology	
Standards	<ul style="list-style-type: none"> • IEEE802.3 10BASE-T, IEEE802.3u 100BASE-T, IEEE802.3x, Ethernet over VDSL
Protocols	<ul style="list-style-type: none"> • Transparent to higher layer protocols
Processing Type	<ul style="list-style-type: none"> • IEEE802.3x Full-duplex flow control

Power	
Input	<ul style="list-style-type: none"> • Input Voltage: 12 to 48VDC (Terminal Block and Latched DC Jack)
Power Consumption	<ul style="list-style-type: none"> • 7.2W Max. 0.6A @ 12VDC, 0.15A @ 48VDC
Overload Current Protection	<ul style="list-style-type: none"> • Present
Reverse Polarity Protection	<ul style="list-style-type: none"> • Present

Mechanical	
Casing	<ul style="list-style-type: none"> • Aluminum case • IP30
Dimensions	<ul style="list-style-type: none"> • 50mm (W) x 110mm (D) x 135mm (H) (1.97" (W) x 4.33" (D) x 5.31" (H))
Weight	<ul style="list-style-type: none"> • 0.8Kg (1.76lbs.)
Installation	<ul style="list-style-type: none"> • DIN-Rail (Top hat type 35mm), Panel, Rack Mounting

Interface		
Ethernet Port	<ul style="list-style-type: none"> • Port: One M12, 4Pin, D-type port, 10/100BASE-TX Full-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	<ul style="list-style-type: none"> • Port: One 50Ω BNC Port (with F-type connector) • Speed Display: 1/5/10/20/30/40/50/60/70/75Mbps • Max. Distance: 2,600meters (8,530ft.) • Cable: Coaxial Cable (5C2V / RG58AU / RG6AU) 	
Speed / Distance Reference	Speed	Distance
	1-5Mbps	2,600M(8,530ft.)
	6-10Mbps	2,400M(7,874ft.)
	11-16Mbps	2,000M(6,561ft.)
	17-20Mbps	1,800M(5,905ft.)
	21-29Mbps	1,600M(5,249ft.)
	30-43Mbps	1,400M(4,593ft.)
	44-54Mbps	1,200M(3,937ft.)
	55-63Mbps	1,000M(3,280ft.)
	64-74Mbps	600M(1,968ft.)
	75-85Mbps	200M(656ft.)
DIP switch	<ul style="list-style-type: none"> • One DIP Switch: Local (CO) or Remote (CPE) 	
LED Indicators	<ul style="list-style-type: none"> • Per Unit: Power Status (Power) • Per Port: 10/100TX: Link/Activity, Full-duplex Line: Error, Link, Local, Remote 	

Environment	
Operating Temperature	<ul style="list-style-type: none"> • -40°C to 75°C (-40°F to 167°F) Tested @ -40°C to 85°C (-40°F to 185°F)
Storage Temperature	<ul style="list-style-type: none"> • -40°C to 85°C (-40°F to 185°F)
Ambient Relative Humidity	<ul style="list-style-type: none"> • EN50155

Regulatory Approvals	
ISO	<ul style="list-style-type: none"> • Manufactured in an ISO9001 facility
Safety	<ul style="list-style-type: none"> • UL508
EMI	<ul style="list-style-type: none"> • FCC Part 15, Class A • VCCI, Class A • EN61000-6-4 <ul style="list-style-type: none"> - EN55022 - EN61000-3-2 - EN61000-3-3
EMS	<ul style="list-style-type: none"> • EN50121-3-2 • EN61000-6-2 • EN61000-4-2 (ESD Standards) <ul style="list-style-type: none"> - Contact: + / - 6KV; Criteria B - Air: + / - 8KV; Criteria B • EN61000-4-3 (Radiated RFI Standards) <ul style="list-style-type: none"> - 20V/m, 800 to 1000MHz; 80% AM, 1kHz; Criteria A - 10V/m, 1400 to 2100MHz; 80% AM, 1kHz; Criteria A - 5V/m, 2100 to 2500MHz; 80% AM, 1kHz; Criteria A • EN61000-4-4 (Burst Standards) <ul style="list-style-type: none"> - Signal Ports: + / - 2KV; Criteria A, + / - 4KV; Criteria B - D.C. Power Ports: + / - 2KV; Criteria A, + / - 4KV; Criteria B • EN61000-4-5 (Surge Standards) <ul style="list-style-type: none"> - Signal Ports: + / - 2KV; Line-to-Line; Criteria B - D.C. Power Ports: + / - 0.5KV; Line-to-earth; Criteria B • EN61000-4-6 (Induced RFI Standards) <ul style="list-style-type: none"> - 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) <ul style="list-style-type: none"> - 30A/m @ 50, 60Hz; Criteria A
Environmental Test Compliance	<p>Vibration Resistance</p> <ul style="list-style-type: none"> • EN61373 : X 0.07grms, Y 0.046grms, Z 0.1grms (Operating) X 0.56grms, Y 0.375grms, Z 0.8grms (Storage/Transport) • IEC60068-2-6 Fc : 5g @ 10 - 150Hz, Amplitude 0.35mm (Operation/Storage/Transport) <p>Shock</p> <ul style="list-style-type: none"> • EN61373 : X 5g, Y , Z 3g • IEC60068-2-27 Ea 25g @ 11ms (Half-Sine Shock Pulse; Operation) 50g @ 11ms (Half-Sine Shock Pulse; Storage/Transport) <p>Free Fall</p> <ul style="list-style-type: none"> • IEC60068-2-32 Ed : 1M (3.281ft.)

Diagrams

Unit: mm

