ET1100V Series

Industrial 10/100BASE-TX Ethernet Extender Over Coaxial Cable

E1 10/100 VDSL1

OT Systems offers the perfect point-to-point solution to connect Ethernet technology to existing coaxial installations. Designed to work in pairs, the ET1100V Series offers 10/100Base-TX connectivity for 2,600 meters up to 85 Mbps using coaxial cables. This simple, plug-and-play system operates transparent to higher layer protocols and offers the OT Systems' design reliability. The ET1100V series is a perfect solution for corporate campuses, industrial settings or any application where aging infrastructure must be integrated with newer facilities and upgraded systems.

Features

- Ethernet Extension: Symmetrical on the VDSL, High speed Full-duplex communications over coaxial cable
- Ten reference speeds support: from 85Mbps@~200m, 30Mbps@~1400m, down to 1Mbps@~2600m
- Operates transparent to higher layer protocols
- Supports DIP switch to select Local or Remote side
- 10/100Mbps Full-duplex, Auto-negotiation, Auto-MDI/MDX
- -10°C to 60°C (14° F to 140° F) operating temperature
- Wall-mount or DIN-Rail

Ordering Information

Model	*Description*
ET1100V-YY	10/100Base-TX Ethernet Extender Over Coaxial Cable

(YY) =	*Installation*	*Power Adapter (Included)*
SA	Standalone Wall-mount	**41G-20120412E.** 12VDC Power Adapter. DC Jack. (US, European, UK or Australian power plug available)
DR	DIN-rail	

NOTE: Please feel free to consult factory for any special requirement and customization.

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Specifications

Ethernet

Standards:	IEEE802.3 10BASE-T
	IEEE802.3u 100BASE-TX
	IEEE802.3x
	Ethernet over VDSL
Processing Type:	IEEE802.3x Full-duplex flow control
Protocols:	Transparent to higher layer protocols
Cabling:	10Base-T: Cat3,4,5 or above
	100Base-TX: Cat5 or above
Maximum Distance:	Cat5 UTP up to 100m
Connector:	1 x RJ45

Coaxial

Cabling:	Coaxial cable
Connector:	BNC (female)
Maximum Distance:	2600m
Speed to Distance:	1-5Mbps @ 2600m
	6-10Mbps @ 2400m
	11-16Mbps @ 2000m
	17-20Mbps @ 1800m
	21-29Mbps @ 1600m
	30-43Mbps @ 1400m
	44-54Mbps @ 1200m
	55-63Mbps @ 1000m
	64-74Mbps @ 600m
	75-85Mbps @ 200m

Electrical and Mechanical

Input Power:	12VDC (DC Jack)
Power Consumption:	5.76W Max. 0.48A@12VDC
DIP Switch:	Local (LO) or Remote (CPE)
LED Indicators:	
Power:	Power Status
10/100TX(Per Port):	Speed, Link/Activity, Full-duplex
Line:	Error, Link, Local, Remote
Dimensions (WxDxH):	80.3 X 109.2 X 23.8 mm
Weight:	0.15Kg
Casing:	Aluminum case
Mounting Options:	Wall-mount
	DIN-Rail (Top hat type 35mm)

Environmental

Operating Temperature:	-10°C to 60°C (14°F to 140°F)
Storage Temperature:	-20°C to 70°C (-4°F to 158°F)
Relative Humidity:	5% to 95% non-condensing

Regulatory Approvals

ISO9001
UL508
FCC Part 15, Class A
VCCI, Class A
EN61000-6-4:
  EN55022
  EN61000-3-2
  EN61000-3-3
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: +/- 1KV; Criteria B
  D.C. Power Ports: +/-2KV; Criteria B
 -EN61000-4-5 (Surge Standards)
  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)
  Signals 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
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