

10/100Base-T, Ethernet over VDSL2

Model EIS2-EXTEND-A



The EIS2-EXTEND-A is a Long Reach Ethernet Extender to utilize existing copper cabling infrastructure (twisted pair), extending Ethernet to up to 1200 meters over VDSL2. Applications such as IP-based Internet connections, video surveillance and voice services can benefit from the EIS2-EXTEND-A series. The devices support VDSL2 Profiles 17a and 30a.

EIS2-EXTEND-A is designed to work in pairs, over twisted pair; as an unmanaged product, it is easy to install and each Extender can be set to a Master (CO) or Remote (CPE) via a DIP Switch. Offering one model that can be set to a Master or Remote and operate as a pair reduces the cost of investment and minimizes inventory as well.

The Extenders support SNR Margin, Remote or Local Power, and Symmetric/Asymmetric data throughput, all DIP Switch-selectable. The selection of symmetrical or asymmetrical for throughput of upstream/downstream data rates directly influences the distance covered. LEDs include link activity, VDSL status, and Central Office or Customer Premises Equipment designation.

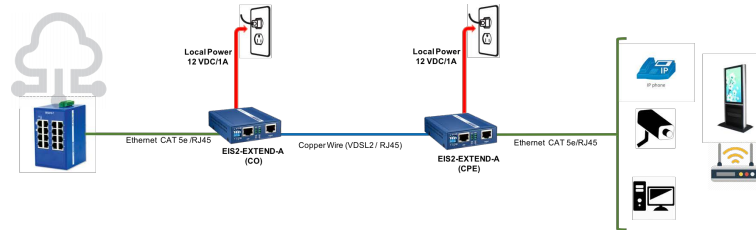
The Extenders meet 802.3 Ethernet standards, as well as transparently supporting VLANs, 802.1q.

PRODUCT FEATURES

- Media and protocol converter (1)10/100BaseT ports to (1)VDSL2
- Operates over existing CAT3 cabling
- Supports VDSL, Band plans 997 and 998 (symmetrical and asymmetrical) transmission per ITU-T G.993.2 standard
- Onboard surge protection
- LED indicators for power, speed and other status
- Signal to Noise Ratio setting (SNR)

ORDERING INFORMATION

Models	VDSL CONNECTOR	VDSL PORTS	ETHERNET PORTS	ETHERNET CONNECTOR
EIS2-EXTEND-A	RJ-45	1	1	RJ-45



Accessories Included

- Din Rail Kit
- Panel Mount Kit
- RJ-45 to RJ-11 cable
- Removable Terminal Block
- External Power Supply AC to DC

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SPECIFICATIONS

TECHNICAL

(1) Port RJ-45 10/100BaseT
 (1) Port RJ-45 VDSL2 Extender
 Twisted Pair 12 to 24 AWG
 BandPlan: Asymmetric (Annex A/998) or Symmetric (Annex B/997)
 SNR Margin: 6dB or 9dB (selectable by DSW)
 Protocol Transparency
 Auto Negotiation
 Auto MDI/MDI-X
 Maximum Distance (meters): 1200 UTP
 Diagnostics and Status LEDs
 DIP Switch to select: BandPlan, SNR Margin, CO/CPE

STANDARDS

Ethernet: IEEE 802.3 10/100 BaseT, 802.3u, 802.3x, 802.1q
 VDSL2: ITU-T G.993.2
 VDSL2 Profiles: 17a and 30a
 IP30 Rating, enclosure

POWER

Input Voltage: 12 VDC, 1A
 Power Connector: Terminal Block

Surge Protection

POWER CONSUMPTION

EIS2-EXTEND-A: 4.2W (max)

MECHANICAL

Shipping Weight 0.22Kg / 0.46lb
 Dimensions 73.4 x 96.2 x 22.8mm (2.89 x 3.78 x 0.89")

ENVIRONMENTAL

Operating Temperature 0° to 167° F (0° to +45° C)
 Operating Humidity: 0° to 185° F (0° to +85° C)
 Storage Temperature: 5% to 95% (non-condensing)
 Altitude 0 – 10,000 ft. altitude

REGULATORY APPROVALS

FCC Part 15 Class A, CE, EN60950, UL60950-1

MTBF

EIS2-EXTEND-A 901,329 Hours

INSTALLATION

Din-Rail or Panel Rack Mountable

WARRANTY

Limited Life time

PERFORMANCE

UTP – 24AWG Copper Wire

SNR Profile	6dB		9dB	
	Asymmetrical		Symmetrical	
	Upstream Line Rate (Mbps)	Downstream Line Rate (Mbps)	Upstream Line Rate (Mbps)	Downstream Line Rate (Mbps)
300	65	100	100	100
400	45	95	70	70
600	30	65	45	45
800	10	45	27	27
1,000	6	35	18	18
1,200	1	20	8	16

MECHANICAL DIAGRAM

(dimensions in inches)



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