110MI Lite Industrial 4-Port Gigabit VDSL2 Ethernet Extender
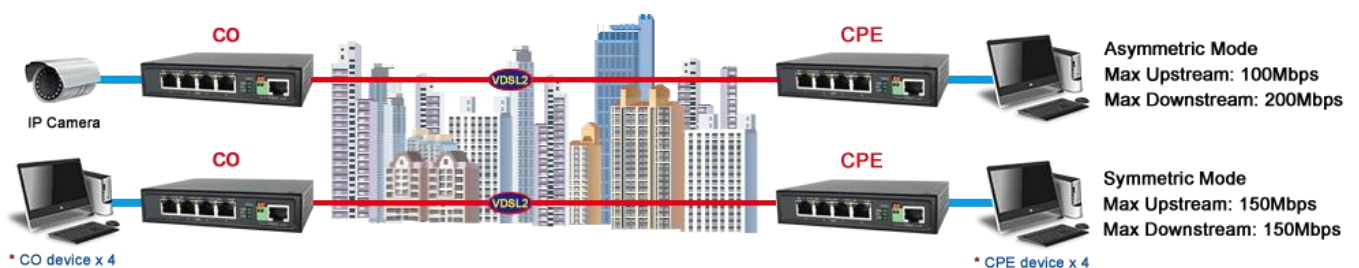

Introduction

PROSCEND 110MI is a **Lite Industrial Grade Ultra-Speed Gigabit Ethernet Copper Extender** that supports a remarkable aggregated bandwidth up to **300Mbps** (Downstream: 150 Mbps/Upstream: 150 Mbps). It delivers fiber-optic like speeds on existing copper infrastructure, enabling a good alternative in place where fiber is not economical to deploy. The **110MI** is equipped with **four Gigabit Ethernet Ports** (RJ-45 connector) and **one VDSL2 port** (RJ-45 connector or 2-PIN Terminal Block) in metal enclosure for easy installation in harsh environment. 8 different profile settings can be flexibly selected via dip switches to suit various applications and environments. Symmetric profile can be applied as a standard Ethernet connection while Asymmetric profile can be used for other services like Video streaming or IP surveillance services which require high traffic flow in an uni-direction configuration. The **110MI** supports transparent LAN bridging to extend Ethernet service over UTP, Cat 5+ or Coaxial cables. With **PROSCEND 110MI** 's superior performance in its category, it is the best high throughput Long Reach Ethernet Extenders for service providers to deploy their IP-based networking services to meet various application scenarios in harsh environment.

Features

- High speed Ethernet extension over UTP, CAT 5e/6/7 or Coaxial cables.
- Support ITU-T G.993.5 G.vectoring and G.INP
- Selectable 8 different profile settings via Dip Switch (G.INP/Interleaved, Target SNR 6/8/12/24 dB, Symmetric/Asymmetric Modes)
- Compatible with Proscend and third-party VDSL2 IP DSLAM when operates in CPE(RT) mode
- Support wide operating temperature range
- Cost effective bridge function to connect two Ethernet LAN
- IEEE 802.1Q VLAN tag transparent
- Easy installation via simple plug-and-play in harsh environment

Specifications

VDSL2 Interface

- RJ-45 connector or 2-PIN Terminal Block
- DMT Encoding
- Complying with ITU-T G993.1/G993.2/G993.5/G.997.1/G.998
- G.INP
- On-board surge protection

LAN Interface

- 4 x RJ-45 connectors
- 10/100/1000 Base-T; Auto-Negotiation, Auto-MDI/MDI-X.
- Complying with IEEE 802.3/802.3u/802.3z

4-position DIP Switch

- Selectable Master (OT) or Remote (RT) mode
- Selectable 8 different profile settings via Dip Switch
  (G.INP/Interleaved, Target SNR 6/8/12/24 dB,
  Symmetric/Asymmetric Modes)

LED

- Power: On/Off
- LAN: Fast Ethernet/Gigabit Ethernet
- VDSL2: Mode – CO (OT) / CPE (RT)
          Sync - Idle / Trained / Link

Power supply

- 110MI-AC: 12 Vdc over 2.1mm DC Jack (Commercial Grade
            External Power Adaptor included)
- 110MI-DC: 12~24 (7.5-30 Max) Vdc over Terminal Block
- Power Consumption: 4.5 Watts maximum

Physical Characteristics

- **Dimension (WxHxD):** 130 x 28 x 94.7 mm
- **Installation:** DIN Rail

Environment

- **Operating Temperature:** -20°C ~65°C
- **Humidity:** 0%~95%RH (non-condensing)

Regulatory Compliance

- CE Class A
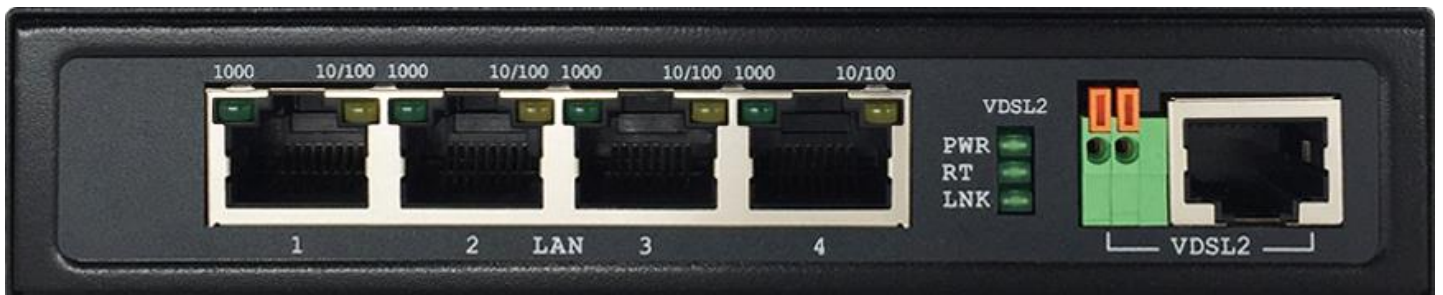- FCC Part 15B Class A
- EN62368-1

Performance

UTP, 26AWG		
Profile Setting 1: Symmetric, SNR 8dB, G.INP		
Distance (Feet)	Upstream Line Rate (Mbps)	Downstream Line Rate (Mbps)
500	155	158
1,000	122	126
1,500	75	80
2,000	48	56
2,500	28	38
3,000	23	28

UTP, 26AWG		
Profile Setting 1: Asymmetric, SNR 8dB, G.INP		
Distance (Feet)	Upstream Line Rate (Mbps)	Downstream Line Rate (Mbps)
500	100	200
1,000	77	170
1,500	38	105
2,000	22	64
2,500	10	43
3,000	9	42
4,000	6	34

* The above performance data is for reference only, the actual line rate may vary depending on the quality of the copper wire and environmental conditions.

Dimensions

- Front View

- 110MI-AC Rear View

- 110MI-DC Rear View

Ordering Information

Model Name	Description
110MI-AC	Lite Industrial Gigabit VDSL2 Ethernet Extender (With Commercial Grade External AC to DC Power Adaptor)
110MI-DC	Lite Industrial Gigabit VDSL2 Ethernet Extender (12~24 Vdc over Terminal Block)

* Features and specifications are subject to change without prior notice.