110MI Industrial Ultra-Speed VDSL2 Extender

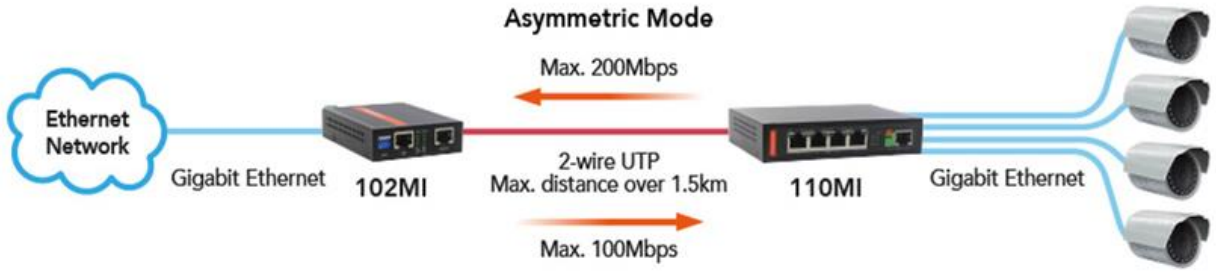
Introduction

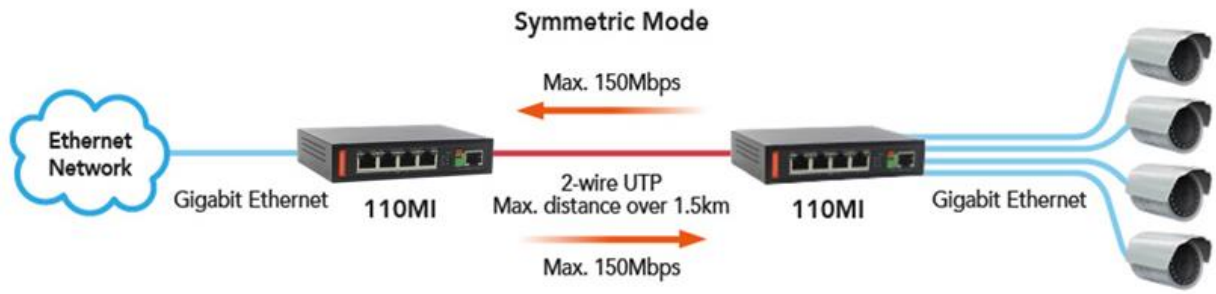
PROSCEND 110MI is an Industrial Ultra-Speed VDSL2 Extender that supports a remarkable aggregated bandwidth up to 300Mbps (Downstream: 150Mbps/Upstream: 150Mbps). It delivers fiber-optic like speeds on existing copper infrastructure, enabling a good alternative in place where fiber is not economical to deploy. The 110MI is equipped with four Gigabit Ethernet ports (RJ45 connector) and one VDSL2 port (RJ45 connector or 2-PIN Terminal Block) in metal enclosure for easy installation and flexible extension. The 8 different profile settings can be selected via DIP switch to suit diverse applications. 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 a uni-direction configuration. The 110MI supports transparent LAN bridging to extend Ethernet services over UTP, Cat 5+ or Coaxial cables. With superior performance in its category, the 110MI is the best high throughput Long Reach Ethernet Extender for service providers to deploy their IP-based networking services to meet various applications in harsh environments.

Features

- High speed Ethernet extension over UTP, CAT 5e/6/7 or Coaxial cables.
- Selectable 8 different profile settings via DIP switch
- Compatible with the 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 environments

Application





Specifications

VDSL2 Interface

- RJ45 connector or 2-PIN Terminal Block
- DMT Encoding
- On-board surge protection

LAN Interface

- 4 x RJ45 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

LED

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

Power supply

- 110MI-AC: 12~24 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 (W x H x D): 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

NOTE: The above performance data is for reference only, the actual data rate may vary depending on the quality of the coaxial cable and environmental factors.

Ordering Information

Model Name	Description
110MI-AC	Industrial Ultra-Speed VDSL2 Extender - 4 LAN/AC Input
110MI-DC	Industrial Ultra-Speed VDSL2 Extender - 4 LAN/DC Input

NOTE: Features and specifications are subject to change without prior notice.