

102MI Lite Industrial Gigabit Ethernet Copper Extender

Introduction



PROSCEND 102MI 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 **102MI** is equipped with a **Gigabit Ethernet Port** (RJ-45 connector) and **one VDSL2 port** (RJ-45 connector) in metal enclosure for easy installation in harden 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 **102MI** supports transparent LAN bridging to extend Ethernet service over UTP, Cat 5+ or Coaxial cables. It is accompanied by a Windows-based software tool **DSLmonitor** that allows easy access for users to read and monitor the **102MI** through its Ethernet port. With **PROSCEND 102MI**'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.

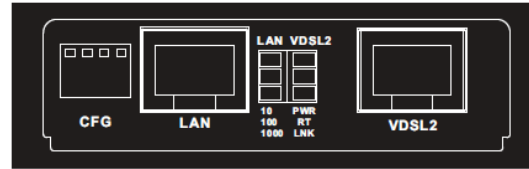
Features

- 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
- Accompanied by Windows-based “DSLmonitor” tool for easy management



Specifications

- **VDSL Interface:**
 - RJ-45 connector
 - 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:**
 - 1 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:**
 - Option 1: 7.5-30 Vdc over terminal block (External Power Adaptor not included)
 - Option 2: 12 Vdc over 2.1mm DC Jack (External Power Adaptor included)
 - Power Consumption: 4.5 Watts maximum
- **Dimension(WxHxD):** 73.4 x 22.8 x 96.2 mm
- **Operating Temperature:** -20°C ~65°C
- **Humidity:** 0%~95%RH (non-condensing)
- **Installation(Optional):** Wall Mounting/Media Converter Chassis
- **Regulatory Compliance**
 - CE Class A
 - FCC Part 15B Class A
 - EN60950



Front Panel

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.

Ordering Information

Model	Description
102MI-AC	Lite Industrial Gigabit Ethernet Copper Extender (With External AC to DC Power Adaptor)
102MI-DC	Lite Industrial Gigabit Ethernet Copper Extender (7.5-30 Vdc over Terminal Block)

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