

## 100MI Lite Industrial VDSL2 Ethernet Extender

### Introduction



**Proscend 100MI VDSL2 Ethernet Extender** is a high-speed and compact Ethernet Extender designed for Utility applications. It is equipped with one Ethernet port (RJ45 connector) and one VDSL port (RJ45 connector) in metal enclosure for easy installation in hardened environment. It is a bridge mode modem, well accommodating VDSL2 (Very-high-data-rate Digital Subscriber Loop) technology to extend Ethernet service over single-pair phone line. It supports VDSL2 30a profile that features 100 Mbps of symmetric data rate over the existing copper wires.

Supporting both symmetric and asymmetric transmission, it can reach up to 100/100 Mbps bandwidth (line rate) within 300M or 10/10 Mbps (line rate) for 1 Km long range connections. By providing ultra-high speed, **100MI VDSL2 Ethernet Extender** makes your telephone line achieve its best performance. It has the advantage of minimum installation time (simply as plug-n-play) and minimum expense by allowing video streaming and data to share the same telephone pair without interference.

The **100MI** has received Underwriters Laboratories (UL) 60950-1 certification for ensuring maximum reliability and safety. With growth of Industrial Internet of Things (IIoT), **Proscend** highlights UL 60950-1 standard requirements for electrical equipment reducing risks of fire, electric shock and fault injury to enhance connected devices connectivity and access at any time and from anywhere for high-speed networks in different applications and diverse environments. **Proscend 100MI VDSL2 Ethernet Extender** delivers everything needed to quickly deploy a high-speed IP-based network for high-speed Internet access, video-on demand services and voice services. The resulting compact, cost-effective form factor offers System Integrators, small business owners an attractive Long Reach Ethernet solution.

### Features

- Metal enclosure and Phoenix connectors for easy installation in Utility applications
- Cost effective bridge function to connect two Ethernet LAN
- Supports flow control on Fast Ethernet port
- IEEE 802.1Q VLAN tag transparent
- Easy installation via simple plug-and-play
- Selectable CPE and CO mode via DIP switch: Two working modes are built in the same unit, which keep the flexibility of installation and easy provision of service but lower inventory of service provider.
- Selectable VDSL2 profile mode (17a or 30a): Support up to VDSL2 30a profile to ensure high data rate
- Selectable target band plan:
  - (1) Symmetric: Support the band plan and provide the symmetric transmission on both downstream and upstream
  - (2) Asymmetric: Provides highest line rate in short range in asymmetric mode
- Selectable target SNR margin
- Compatible with Proscend 724M/708M DSLAM & third party DSLAM



## Specifications

### VDSL Interface

- RJ45 connector
- DMT Encoding
- Complying with ITU-T G993.1/993.2/G997.1
- On-board surge protection

### LAN Interface

- 1 x RJ-45 connector
- Complying with IEEE 802.3/802.3u/802.3x
- 10/100 Base-T Auto-Negotiation, Auto-MDI/MDI-X

### 4-position DIP Switch

- Selectable CO or CPE mode
- Selectable 30a or 17a (VDSL2 Profile)
- Selectable Band plan (Symmetric or Asymmetric)
- Selectable target SNR margin (6dB or 9dB)

### LED

- LAN: ACT/LNK, 10/100Mbps, Half/Full Duplex
- VDSL: Power On/Off, CO/CPE, Idle/Trained/Link

### Power Supply

- Option 1: 5 -20 Vdc over Phoenix connector (External Power Adaptor not included)
- Option 2: 12 Vdc over 3.5mm DC Jack (External Power Adaptor included)
- Power Consumption: 4.2 Watts maximum

### Physical Characteristics

- Dimension (W x H x D): 72.5 x 23 x 94.5 mm
- Enclosure : Metal Shell

### Environment

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

### Regulatory Compliance

- CE
- FCC Part 15 Class A
- UL60950-1, EN60950-1, IEC60950-1
- EN60950

## Ordering Information

Model Name	Description
100MI	Lite Industrial VDSL2 Ethernet Extender with a 10/100 Base-T RJ45 connector

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