101MI-G Ultra-Speed Copper Ethernet Extender with 4 Gigabit Ethernet Ports
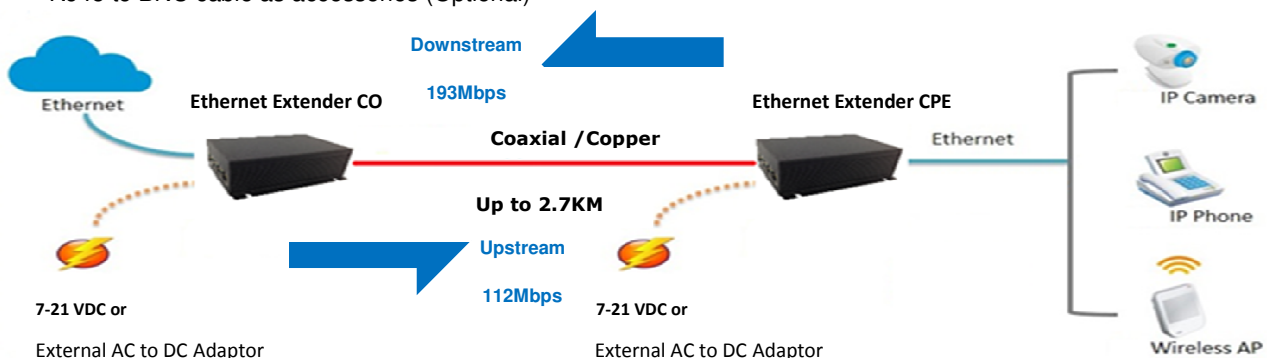
Description

Proscend 101MI-G is an Ultra-Speed Copper Ethernet Extender designed for applications under harsh environment. It is equipped with 4 Gigabit Ethernet Ports (RJ-45 connector) and one VDSL port (RJ-45 connector) in metal enclosure for easy installation in harden environment. **101MI-G** supports wide operating temperature from - 40°C to +75°C. It is a bridge mode modem, well accommodating the latest VDSL2 (Very-high-data-rate Digital Subscriber Loop) technology to extend Ethernet service over UTP, Cat 5+ or Coaxial cables. It is compliant to ITU-T G.993.2 standard and supports enhanced VDSL2 30a profile that features maximum line rate of 193Mbps (DS)/112Mbps (US) over the existing copper wires. By providing ultra-high speed, **101MI-G** VDSL2 Ethernet Extender makes your copper line achieve its best performance than before. 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.

101MI-G VDSL2 Ethernet Extender delivers everything needed to quickly deploy an IP-based network for faster and reliable internet access, video-on demand services and voice services. The resulting compact, cost-effective form factor offers Systems Integrators, small business owners an attractive high speed and long reach Ethernet extension solution.
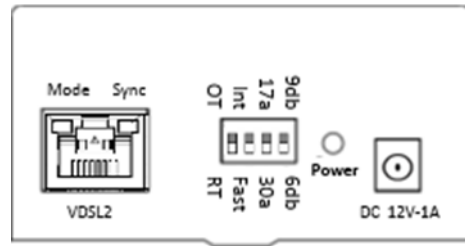
Features

- High speed Ethernet extension over UTP, CAT 5e/6/7 or Coaxial cables.
- Metal enclosure for easy installation in Utility applications
- Cost effective bridge function to connect two Ethernet LAN
- Support extended temperature range: -40°C ~+75°C
- IEEE 802.1Q VLAN tag transparent
- Easy installation via simple plug-and-play
- 4-Position Dip Switch for quick set up
- Wall Mount or Mounting Magnets (Optional)
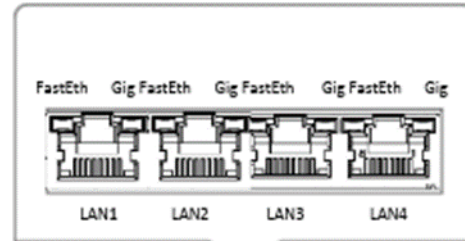- RJ45 to BNC cable as accessories (Optional)

Specifications

- VDSL Interface:
  - RJ-45 connector
  - DMT Encoding
  - Complying with ITU-T G993.1/993.2/G.997.1
  - 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 CO or CPE mode
  - Selectable Fast or interleave mode
  - Selectable 30a or 17a (VDSL2 Profile)
    Profile 30a: High Throughput Mode
    Profile 17a: Long Reach Mode
  - Selectable target SNR margin (6dB or 9dB)
- LED:
  - Power: On/Off
  - LAN: Fast Ethernet/Gigabit Ethernet
  - VDSL2: Mode - CO/CPE
    Sync - Idle/Trained/Link
- Power supply:
  - Option 1: 7 -21 Vdc over terminal block
    (External Power Adaptor is not included)
    Option 2: 12 Vdc over 2.1mm DC Jack
    (External Power Adaptor included)
  - Power Consumption: 4.5 Watts maximum
- Dimension: 88 mm x 40 mm x 110.7mm
- Operating Temperature: -40°C ~+75°C
- Humidity: 0%~95%RH (non-condensing)
- Installation: Wall Mounting or Magnet Kit(optional)
- Regulatory Compliance
  - CE
  - FCC Part 15 Class A
  - EN60950

* Features and specifications are subject to change without prior notice

Front Panel

Rear Panel

Performance

UTP, 24AWG		
Profile 30a: High Throughput Mode		
Distance (Feet)	Upstream Line Rate (Mbps)	Downstream Line Rate (Mbps)
500	97	183
1,000	59	136
1,500	40	96
2,000	24	64
2,500	10	56
3,000	6	43

UTP, 24AWG		
Profile 17a: Long Reach Mode		
Distance (Feet)	Upstream Line Rate (Mbps)	Downstream Line Rate (Mbps)
500	54	129
1,000	49	112
1,500	39	84
2,000	23	60
2,500	11	45
3,000	6	40
4,000	1	31
6,000	0.64	14
9,000	0.36	4