

KEY FEATURES

- Cost effective bridge function to connect two Ethernet LAN
- Easy installation via simple plug-and-play
- Provide 100/100 Mbps up to 300m over CAT 5e
- Provide 10/10 Mbps up to 1km over CAT 5e
- Configurable SNR profile for noisy environment



PRODUCT OVERVIEW

VX100 VDSL2 Ethernet Extender is a high-speed, Long Reach Ethernet Extender with one **RJ-45 Ethernet** port and one **RJ-45 VDSL** port. It is a bridge mode modem, well accommodating VDSL2 (Very-high-data-rate Digital Subscribe Loop) technology to extend Ethernet service over **single-pair phone line**. Compliant to ITU-T G.993.2 standard and supports up to VDSL2 30a profile, **VX100** VDSL2 Ethernet Extender features 100Mbps of symmetric data rate over the existing copper wires. It also supports both symmetric and asymmetric transmission, and can reach up to **100/100 Mbps** bandwidth (line rate) within **300M** or **10/10 Mbps** (line rate) for **1Km** long range connections.

The **VX100** VDSL2 Ethernet Extender also supports selectable CPE and CO mode. By selecting operation modes: one with CO mode and the other with CPE mode, users can connect two **VX100** VDSL2 Ethernet Extenders to establish a point-to-point connection.

With its high performance and plug-n-play design, **VX100** VDSL2 Ethernet Extender is the ideal Long Reach Ethernet solution for ISPs and carriers to quickly deploy a high-speed IP-based network for triple play (video, voice and data) services.

APPLICATION



Specifications

- **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
- **Performance*** (AWG24 Wire)
- **LAN Interface:**
 - RJ-45 connector
 - Complying with IEEE 802.3/802.3u/802.3x
 - 10/100 Base-T Auto-Nego, Auto-MDI/MDI-X.
- **VDSL Interface:**
 - RJ-45 connector
 - DMT Encoding
 - Complying with ITU-T G993.1/993.2/G.997.1
 - On-board surge protection
- **Regulatory Compliance**
 - CE
 - FCC Part 15 Class B
 - EN60950
- **Power supply:**
 - DC single 12 V over 3.5mm DC jack; 4.2 Watt maximum.
- **Dimension:** 72.5 mm x 23 mm x 94.5 mm
- **Operating Temperature:** 0°C ~45°C
- **Humidity:** 0%~95%RH (non-condensing)

Downstream/Upstream

17a Profile		30a Profile	
300M	100/72 Mbps	300M	100/100 Mbps
600M	42/46 Mbps	600M	40/45 Mbps
800M	32/28 Mbps	900M	22/19 Mbps
1000M	18/13 Mbps	1200M	16/7 Mbps
1200M	16/7 Mbps	1500M	12/3 Mbps
1500M	12/3 Mbps	1800M	8/2 Mbps
1800M	9/2 Mbps	2100M	5/2 Mbps
2000M	5/2 Mbps		

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

- 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:
 - Symmetric: Support the band plan G.997 and provide the symmetric transmission on both downstream and upstream.
 - Asymmetric: Provides highest line rate in short range in asymmetric mode.

