

100M VDSL2 Ethernet Extender

Description

100M 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, 100M 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 1 Km long range connections.

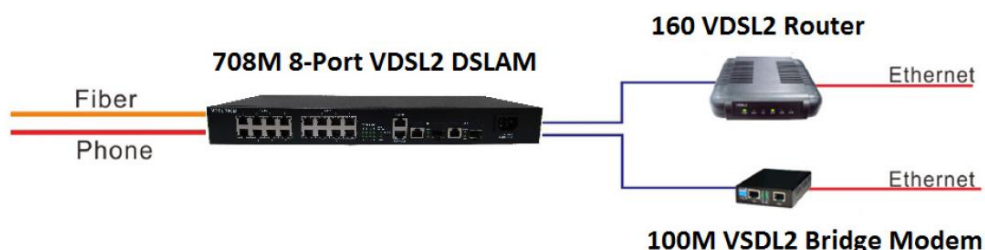


The 100M VDSL2 Ethernet Extender also supports selectable CPE and CO mode. By selecting operation modes: one with CO mode and the other with CPE mode, users can connect two 100M VDSL2 Ethernet Extenders to establish a point-to-point connection.

With its high performance and plug-n-play design, 100M 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.

Features

- Cost effective bridge function to connect two Ethernet LAN
- Support flow control on Fast Ethernet port via PAUSE frame or Back Pressure
- 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:
 - 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.
- Selectable target SNR margin
- Compatible with 724M/708M IP DSLAM & third party IP DSLAM.
- Compatible with 2U 19-inch chassis that supports up to 17 100M VDSL2 Ethernet Extenders.





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)

Downstream/ Upstream	
17a Profile	
300M	100/72 Mbps
600M	42/46 Mbps
800M	32/28 Mbps
1000M	18/13 Mbps
1200M	16/7 Mbps
1500M	12/3 Mbps
1800M	9/2 Mbps
2000M	5/2 Mbps
30a Profile	
300M	100/100 Mbps
600M	40/45 Mbps
900M	22/19 Mbps
1200M	16/7 Mbps
1500M	12/3 Mbps
1800M	8/2 Mbps
2100M	5/2 Mbps
- **LAN Interface:**
 - RJ-45 connector
 - Complying with IEEE 802.3/802.3u/802.3x
 - 10/100 Base-T Auto-Negotiation, 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 Volt 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)

* 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.