100M VDSL2 Ethernet Extender

Introduction

100M VDSL2 Ethernet Extender is a high-speed, Long Reach Ethernet Extender with one RJ45 Ethernet port and one RJ45 VDSL port. 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. Supporting up to VDSL2 30a profile, 100M VDSL2 Ethernet Extender features 100 Mbps 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
▪ Supports 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:
(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
▪ Compatible with 2U 19-inch chassis that supports up to 17 100M VDSL2 Fast Ethernet Extenders

Specifications

VDSL Interface
- RJ45 connector
- DMT Encoding
- On-board surge protection

LAN Interface
- 1 x RJ45 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,10/100Mpbs, Half/Full Duplex
- VDSL: Power On/Off, CO/CPE, Idle/Trained/Link

Power Supply
- DC single 12 Volt over 3.5mm DC jack
- Power Consumption: 4.2 Watts maximum

Physical Characteristics
- Dimension (W x H x D): 72.5 x 23 x 94.5 mm
- Enclosure：Plastic Shell

Environment
- Operating Temperature: 0°C ~45°C
- Humidity: 0%~95%RH (non-condensing)

Regulatory Compliance
- CE
- FCC Part 15 Class B
- EN60950

Ordering Information

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

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