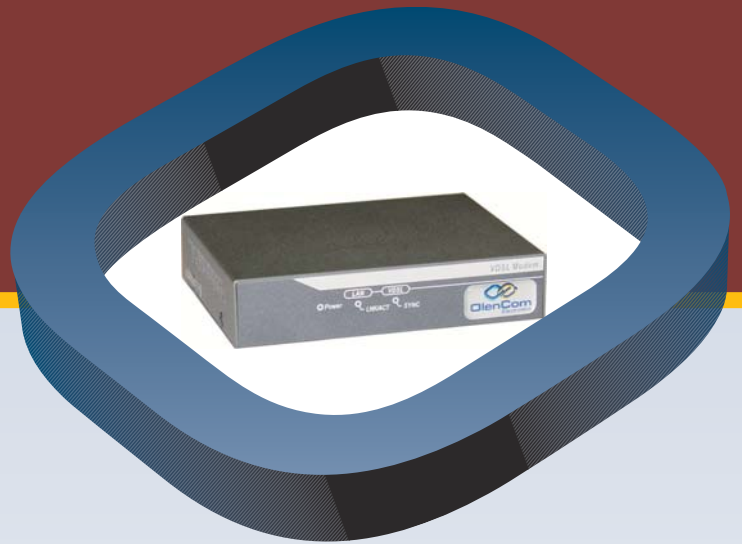


VM-100S-1B

VDSL Long Distance Modem, Ethernet Bridge

Description

The VM-100S-1B is an Olencom's proprietary Fast Ethernet to/from VDSL Long Distance conversion device with one 10/100 Mbps LAN interface. The VM-100S-1B uses QAM-based DSL technology, and can extend the Ethernet service at a throughput of 4.3 Mbps to distances around 2.5 km over the standard phone line. The optional built-in POTS/ISDN splitter allows a local phone or ISDN device to be connected, of which the signal is sent over the same phone line as the VDSL service to the central site where another splitter should be used. The LAN interface supports both full and half-duplex modes



of operations, and auto-crossover features. The internal buffer provides rate adaptation for different link rates and duplex modes between the LAN side and the VDSL side. The front panel LEDs provide clear run-time indication of traffic and system status. The VM-100S-1B is the one of the most cost-effective solutions for delivering broadband services to Multi-Dwelling Units (MDU), Multi-Tenant Units (MTU) and campuses environments.

Point-to-Point Application



VM-100S-1B

VDSL Long Distance Modem, Ethernet Bridge

Product Specifications

General Features

- * Data conversion between 10BaseT/100BaseTX and VDSL
- * Based on QAM 4 ~ 256 line coding scheme
- * Supports symmetric data throughput of up to 4.3 Mbps at around 2.5 km
- * Supports asymmetric data throughput of up to 26Mbps downstream
- * Supports back pressure algorithm for transmission flow control
- * Built-in MAC address table increases throughput efficiency over the VDSL link
- * Supports store-and-forward mechanism for data transmission.
- * Built-in 16KB/8KB Tx/Rx buffer for rate adaptation between LAN and VDSL
- * Built-in POTS/ISDN splitter
- * Hardware based 10/100Mbps, full/half-duplex, and crossover auto-negotiation

VDSL Interface One VDSL interface with RJ-11 connector

VDSL Distance Limitation	4.3 km
POST/ISDN interface	One POTS interface with RJ-11 connector
Ethernet Standards	IEEE 802.3, 802.3u, 802.3x flow control
Ethernet Interface	One 10/100 Base-Tx with RJ-45 connector
LED indicators	Power indicator VDSL: Sync. Ethernet: Link/Activity
Operating Temperature	0 ~ 50 C (32~122 F)
Storage Temperature	-25 ~70 C (-13 ~158 F)
Humidity	10% ~ 90% non-condensing
Power Consumption	10 W maximum, 5V DC with external AC to DC power adaptor
Certifications	FCC part 15 & Part 68, CE, VCCI
Weight	340 g (0.751lb)
Dimension (W x D x H)	4.6 x 3.6 x 1.0 in. (117.33 x 92.6 x 25.7 mm)