

V102M

100/100Mbps VDSL2 LAN Extender



V102M is a VDSL2 LAN Extender providing a broadband transmission up to 100/100Mbps for downstream/upstream over single pair copper line for point-to-point Ethernet connectivity. With 100/100Mbps data rate, V102M supports transmission distance up to 250 meters and less data rate for 1.5km long range connection.

With plug and play features and minimum installation time, a pair of V102M offers a cost effective solution for bandwidth-hungry applications such as video streaming and FTTB over single twisted pair telephone line.

Features:

- 100/100Mbps full duplex for distance up to 250 meters
- Supports DSL connection up to 1500 meters
- Auto MDIX for 10/100 BaseT Ethernet LAN Ports
- 4 Dip Switches for Master/Slave Configurations
- Low-Latency for Video/Voice/Data applications
- Annex A supported
- Supports Back-to-Back application as LAN extender

Technical Specifications:

VDSL Transmission:

- Max Data Rate: 100/100 Mbps
- RJ-11 Connector x 1

POTS Interface:

- Annex A
- RJ-11 Connector x 1

LAN Interface:

- Auto-Detection for 10/100 BaseT and Half/Full duplex
- High performance bridge for Ethernet extension
- Fully compatible with IEEE802.3/IEEE802.3u
- Automatic MDIX Function,
- RJ-45 Connector x 2

LED Indicators:

- | | |
|---|---|
| ● POWER: Power is ON | DSL: VDSL Loop Connection Status |
| ● LAN1: Data Activity of LAN Port1 | M/S: Master/Slave Selection |
| ● LAN2: Data Activity of LAN Port2 | |

Physical Dimension:

Desktop: 120 x 90 x 28 (mm)

Power:

12VDC 0.8A

Operating Environment:

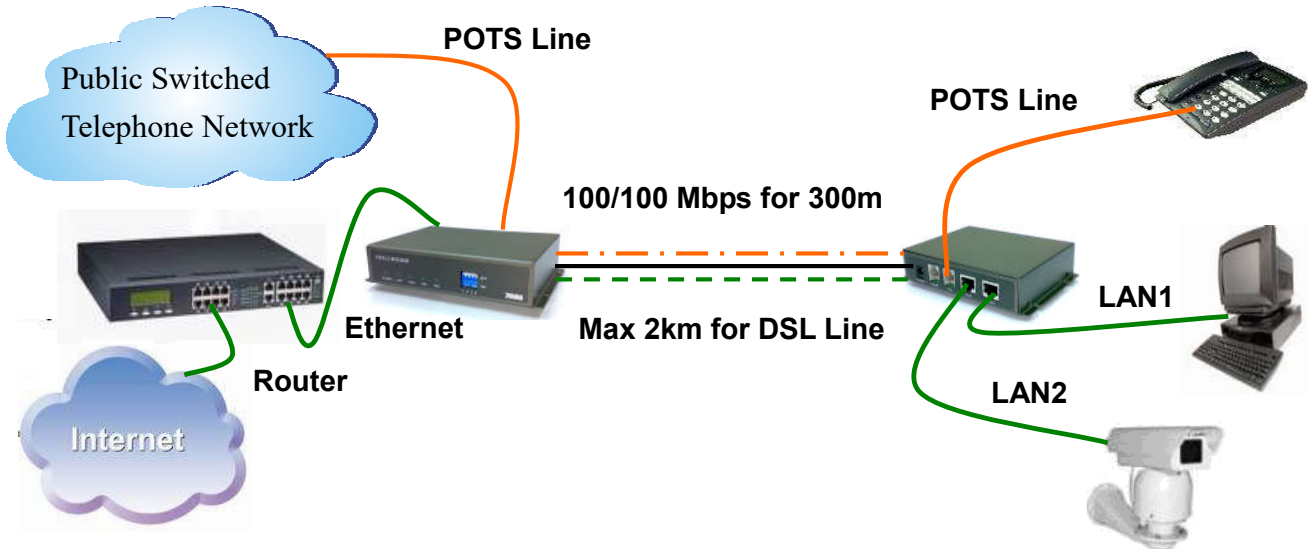
- Humidity: 5% to 95% non-condensing
- Temperature: 0 ~ 50 degree C

Regulatory Compliance:

- FCC Rules Part 15
- CE
- LVD
- RoHS

Application Diagram:

LAN-to-LAN Extension over DSL Line

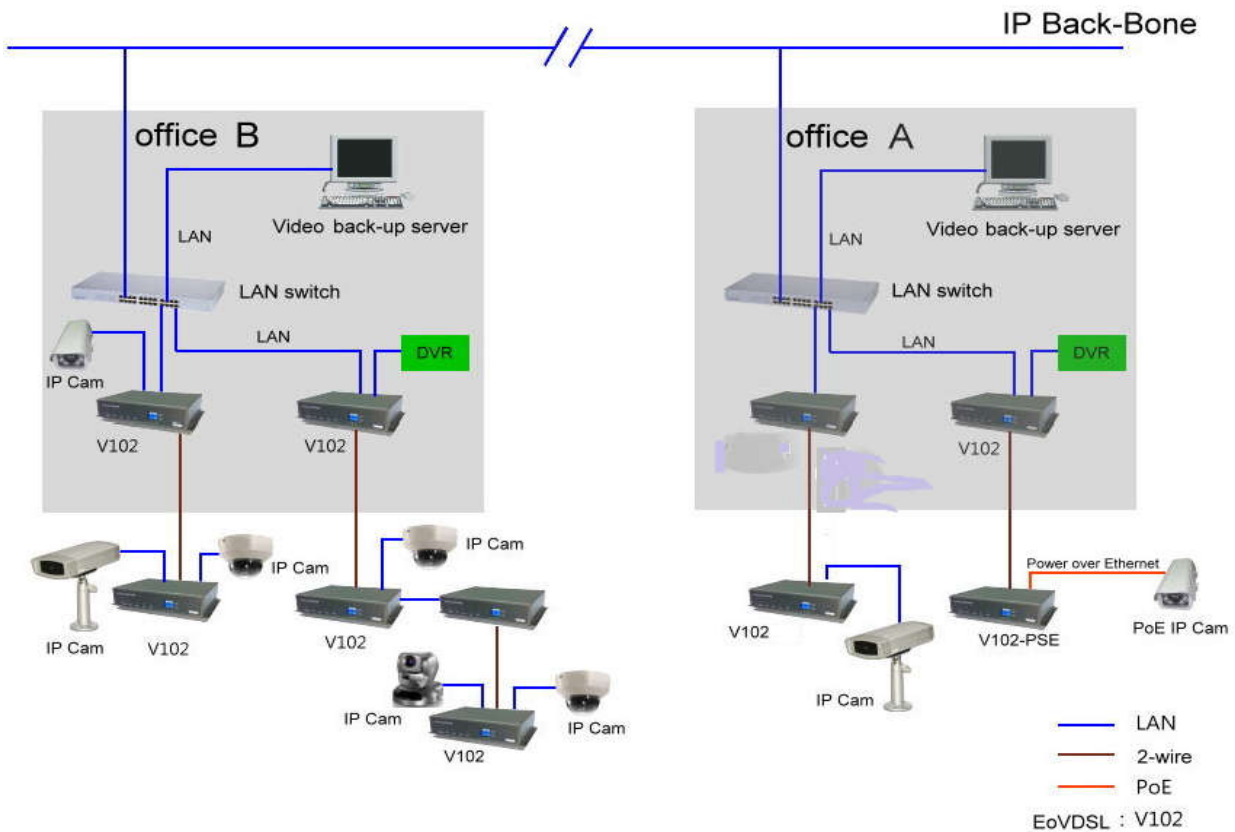


Data Rate & Distance:

Performance in AWG 26 Line at 6dB without rate limit

Down Stream Data Rate (Mbps)	Up Stream Data Rate (Mbps)	Distance (feet)
100	100	1000
100	60	1200
90	44	1350
80	36	1500
70	27	1750
60	18	2000
48	11	2500
39	8	3000
35	3.5	3500
28	0.3	4000

V102M series products for varied application:



VPS800-12v : 19-inch 8-Bay Power cabinet accommodating up to 8 V102M



V102M-PSE : It performs long reach Ethernet over 2-wire copper with PoE output



V102M-PD : It can be powered by PoE injector or PoE Switch via RJ45 port

