

# V102M-PSE

## 100Mbps VDSL2 LAN Extender with PoE PSE embedded



V102M-PSE is a VDSL2 LAN Extender providing a broadband transmission up to 100/100Mbps for downstream/upstream over single pair copper line or coaxial cable for point-to-point Ethernet connectivity. With 100/100Mbps data rate, V102M-PSE supports transmission distance up to 250 meters and less data rate for 1.5km long range connection. Users may also select a fixed data rate or a fixed SNR margin for different copper line ranging.

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

In some working environment, V102M-PSE is able to power up the device no matter the device embedded with PoE or without which can be bundled with PoE splitter. This makes the V102M-PSE is working with local power facility and perform PoE over 100 meter LAN line perfectly.

### Features:

- Compliant with ITU-T G.993.1, G.993.2 VDSL2 Standard

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- Compliant with IEEE 802.3af/at and mid-span PoE PD (powered device)
- VDSL2 Profiles: 8a/b/c/d, 12a/b, 17a, 30a
- Supports Back-to-back applications
- Ethernet packets over VDSL2
- 100/100Mbps full duplex for distance up to 250 meters
- Supports DSL connection up to 1500 meters
- Auto MDIX for 10/100BaseT Ethernet LAN Ports
- 4 Dip Switches for Master/Slave Configurations
- Low-Latency for Video/Voice/Data applications

## **Technical Specifications:**

### VDSL Transmission:

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

### LAN Interface:

- Auto-Detection for 10/100BaseT 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
- LAN1 embeds IEEE 802.3at/af, midspan PoE PSE for upto 30w output

### LED Indicators:

- **POWER:** Power is ON
- **LAN1 :** Data and PoE Activity
- **LAN2:** Data Activity of LAN
- **DSL:** VDSL Loop Connection Status
- **M/S:** Master/Slave Selection

### Physical Dimension:

Desktop: 120 x 90 x 28 (mm)

### Power Adaptor:

48VDC/0.75A, 36 watt

### Operating Environment:

Humidity: 5% to 95% non-condensing

- Temperature: 0 ~ 40 degree C

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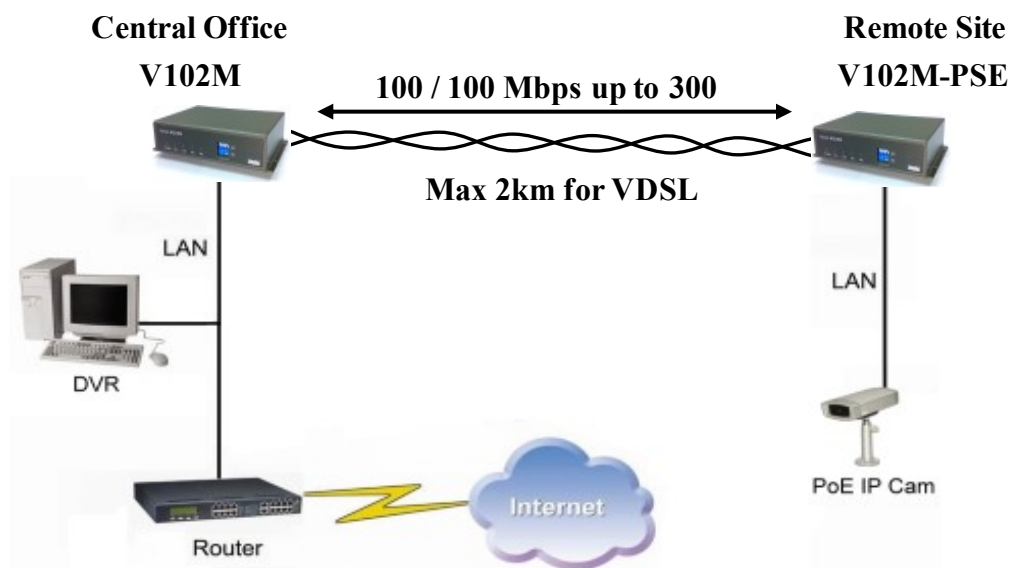
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Regulatory Compliance:

- FCC Rules Part 15,
- CE
- RoHS

**Application Diagram:**



**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



<b>Ordering Information</b>	
V102M	LAN Extender, local power 12V/1A
V102M-PSE	LAN Extender, 1 x PoE PSE, 48VDC/0.75A, PoE out 30W
V102M-UPSE	LAN Extender, 1 x PoE PSE, 56VDC/1.16A, PoE out 60W

