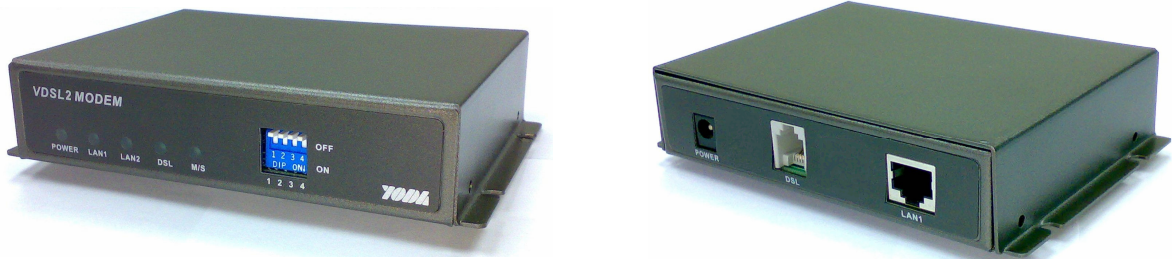# V102-PM & V102-PS

Line Power VDSL LAN Extender

V102-PM & V102-PS form a pair of remote line-powered VDSL LAN Extender providing a broadband transmission up to 100/60Mbps for downstream/upstream over single pair of copper line for point-to-point Ethernet connectivity. With remote line power supply from V102-PM, the V102-PM & V102-PS support a connection distance up to 350 meters with 100/60Mbps data rate. 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 V102 Series offers a cost effective solution for bandwidth-hungry applications such as video streaming and FTTB over single twisted pair telephone line.

Features:

- ITU-T G.993.1, G.993.2 VDSL/VDSL2 and SG15Q4 DMT Compliance
- 100/60Mbps DownSream/UpStream for distance up to 350 meters
- Remote Line Power
- Trellis Coding support up to 1024 Discrete Multi-Tone (DMT) bin
- Selectable Fast and Interleaved modes
- Selectable fixed data rate and fixed SNR margin
- Auto MDIX for 10/100 BaseT Ethernet LAN Ports
- IEEE 802.3af PSE Compliant for Class 0-3.
- 4 Dip Switches for Master/Slave Configurations
- Low-Latency for Video/Voice/Data applications

Technical Specifications:

VDSL Transmission:
- ITU-T G.993.1/2, SG15Q4 DMT Compliance
- Trellis Code with 1024 DMT bins
- Max Data Rate: 100/60 Mbps
- RJ-11 Connector x 1

LAN Interface:
- Auto-Detection for 10/100 BaseT and Half/Full duplex
- Fully compatible with IEEE802.3/IEEE802.3u
- Automatic MDIX Function
- RJ-45 Connector x 1

Remote Line Power:
- Safety-Extra-Low-Voltage (SELV) Compliant
- Power Auto Restart with Under Voltage Lockout (UVLO) Fault Detection

LED Indicators:
- **POWER:** Power is ON   **DSL:** VDSL Loop Connection Status
- **LAN:** Data Activity of LAN Port   **PM:** Line Power is ON

Physical Dimension:
Desktop: 120 x 90 x 28 (mm)
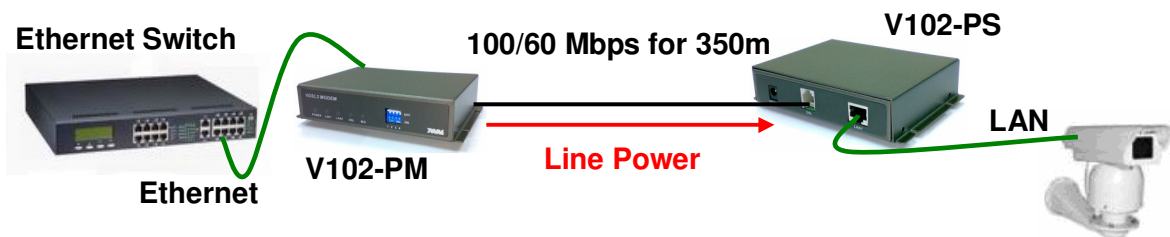
Power:
12VDC 2.5A

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

Regulatory Compliance:
- FCC Rules Part 15
- CE

YODA

Application Diagram:

Remote Line Power LAN-to-LAN Extension over DSL Line

Data Rate & Distance:

Performance in AWG 24 Line at 6dB without rate limit

Down Stream Data Rate (Mbps)	Up Stream Data Rate (Mbps)	Distance (meter)
100	60	350