

UVE7312-MP/SP

Ethernet over VDSL2 (Line Power) Converter

Connects over two Ethernet LANs over VDSL2 technology



FEATURES

- ITU-T G.993.1/2 VDSL2 SG15Q4 DMT Compliance
- Complies with IEEE802.3u 100Base-TX standard
- Complies with IEEE802.3 10Base-T standard
- Complies with IEEE802.3af PoE PSE for Class 0-3
- Supports 1 x RJ-11 Port for Line Power over DSL2
- Supports 1 x RJ-45 ports for 10/100Mbps Ethernet
- Supports remote Line Power feature
- VDSL2 port supports up to 100Mbps downstream and 60Mbps upstream for distance up to 350 meters
- Trellis Coding supports up to 1024 Discrete Multi-Tone (DMT) bin
- Supports a VDSL connection up to 1,500 meters over single pair RJ-11 telephone copper wire
- Features selectable Fast and Interleaved modes
- Selectable fixed data rate and fixed SNR margin
- Provides a piano 4 DIP switches for Master / Slave (CO/CPE) mode selection
- Low-Latency for Video/Voice/Data applications
- Plug-&-Play without any software configuration
- Transparent to all kind of network protocols
- Provides rich diagnostic LED indicators

Package Contents

- One Ethernet over VDSL2 (Line Power) Converter
- One User's Manual
- One 12V, 2.5A External AC Power Adapter

OVERVIEW

UVE7312-MP (master to supply power) / -SP (slave), a pair of remote VDSL2 Line Power converter, is an access standard technology that allow carriers to deliver data up to 100Mbps downstream and 60Mbps upstream paths over the existing copper plant. The Ethernet over VDSL2 Converter featured signal conversion technology between standard Ethernet and innovative VDSL2 over Ethernet on the telephone line for point-to-point connectivity. It is an ideal solution to extend the distance of local area network from 100 meters to 1,500 meters. The VDSL2 LAN Extender allows voice and data to be transmitted on the same line, saving a lot of redundant cost of wiring. Users may also select a fixed data rate or fixed SNR margin for different copper line ranging

For network system integrators, this product is the best choice for planning centralized Internet access for hotels, offices, apartments and campus environment. In addition, it will allow operators to compete with cable and satellite providers by offering service such as high definition TV (HDTV), Video-on-demand, video-conferencing, FTTB, high speed internet access and advanced voice service like VoIP, over single coaxial cable. The VDSL2 technology is a cost effective solution to be used as last mile line into the home or office while the ISP and Telcos use Fiber optic lines as the backbone.

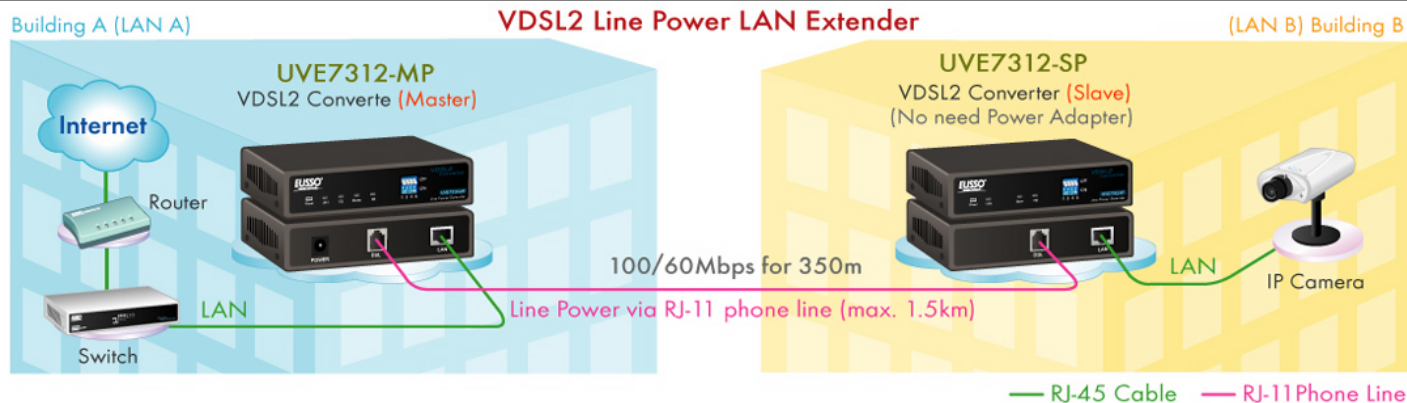
The converter is plug and play without any software to configure and also fully compliant with all kinds of network protocols. Moreover, the rich diagnostic LEDs on the front-panel for providing the operating status of the system.

SPECIFICATIONS

System Specifications	
Standards	IEEE802.3 10BASE-T IEEE802.3u 100BASE-TX IEEE802.3af PoE PSE for Class 0-3 VDSL2 ITU-T G.993.1/2, SG15Q4 DMT compliance
Network Data Rate	Ethernet : 10/100Mbps VDSL2 : Up to 100/60Mbps (Downstream/Upstream)
Mode Control	Master Mode : Acts as Master (CO) Slave Mode : Acts as Slave (CPE)
VDSL2 Speed	Downstream : 100Mbps over 350m Upstream : 60Mbps over 350m
Remote Line Power	Safety-Extra-Low-Voltage (SELV) compliant Power auto restart with Under Voltage Lockout (UVLO) fault detection
LAN Interface	1 X RJ-45 connector : 10/100M Fast Ethernet port
VDSL2 Interface	1 X RJ-11 connector : Line Power Port
Cable Connection	RJ-45 (10/100Base-TX) : UTP CAT. 3、4、5 (2-pair wire) RJ-11 (VDSL2) : AWG24 Telephone Line
Cable Length	Ethernet : Maximum 100 meters (UTP LAN cable) VDSL2 : Maximum 1,500 meters (RJ-11 Telephone Cable)
Hardware Specifications	
LED indicators	Power、LAN、DSL、PM (Line Power)
Dimension	120(L) x 90(W) x 29(H) mm
Weight	330g
Operating Temperature	0°C ~ 50°C
Operating Humidity	5% ~ 95% non-condensing
Power Supply	12VDC, 2.5A, External Power Adapter
Certification	FCC、CE、RoHS

Application Diagram

Ethernet over VDSL2 (Line Power) Converter Application Diagram



A pair of remote VDSL2 Line Power converter has power supply by master device to slave device and is the best solution for bandwidth-hungry applications such as video streaming and FTTB over telephone line to extend connection for long distance.

ORDERING INFORMATION

Model	Description
UVE7312-MP	Ethernet over VDSL2 Line Power converter (Master)
UVE7312-SP	Ethernet over VDSL2 Line Power converter (Slave)

EUSSO Technologies, Inc. is a dedicated data communication and networking company. With professional experiences in design, production, marketing and service support, we deliver the full range networking products including Gigabit Ethernet, Fiber Optic, Wireless LAN, Switches, Hubs, LAN cards, PCMCIA adapters, Converter, Transceivers. As well as Internet Telephony Gateway, Print Servers, Internet Sharing Servers and many others.

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