

UVE7312-MSPE

Ethernet over VDSL2 PoE (PSE) LAN Extender

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
- PSE supports output voltage from 44 ~ 57 volt
- Supports 1 x RJ-11 Port for Line Power over DSL2
- Supports 1 x RJ-45 ports for 10/100Mbps Ethernet
- VDSL2 port supports up to 100Mbps downstream and 60Mbps upstream for distance up to 300 meters
- Trellis Coding supports up to 1024 Discrete Multi-Tone (DMT) bin
- Supports a VDSL2 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 PoE PSE Converter
- One User's Manual
- One 12V, 2.5A External AC Power Adapter

OVERVIEW

UVE7312-MSPE, Ethernet over VDSL2 PoE PSE converter, provides power supply over Ethernet cable to Ethernet PD device with voltage in the range from 44 to 57 volt. It is also an access standard technology that allows carriers to deliver data up to 100Mbps downstream and 60Mbps upstream paths over the existing copper plant. It featured single conversion technology between standard Ethernet and innovative VDSL2 over Ethernet one the telephone line for point-to-point connectivity. This converter 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 twisted pair telephone line. 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-&-play without any software configuration and fully compliant with all kinds of network protocols. Moreover, 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 (Power over Ethernet), 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)
PSE	IEEE802.3af compliant with output voltage within 44 ~ 57 Volt Safety-Extra-Low-Voltage (SELV) compliant Maximum 15.4w power level for Class 0 ~ 3 Power auto restart with Under Voltage Lockout (UVLO) Fault Detection
Mode Control	Master Mode : Acts as Master (CO) Slave Mode : Acts as Slave (CPE)
VDSL2 Speed	Downstream : 100Mbps over 300m Upstream : 60Mbps over 300m
LAN Interface	1 X RJ-45 connector : 10/100M Fast Ethernet PoE PSE port
VDSL2 Interface	1 X RJ-11 connector : Ethernet over VDSL2 Port
Cable Connection	RJ-45 (10/100Base-TX) : UTP CAT. 3、4、5 (2-pair wire) RJ-11 (VDSL2) : AWG26 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、PSE
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 PoE (PSE) Converter Application Diagram



A pair of VDSL2 converters with PoE PSE featured that provides power supply over Ethernet cable to Ethernet PD device 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-MSPE	Ethernet over VDSL2 PoE PSE converter
UVE7312-MSPD	Ethernet over VDSL2 PoE PD converter

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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EUSSO Technologies, Inc.

6F, No.389, Sec.2, Chung Shan Road, Chung Ho City, Taipei 235-58, Taiwan

TEL:+886 (2) 8221-4616 E-mail:sales@eusso.com

FAX:+886 (2) 8221-4607 http://www.eusso.com