UVE7312-MSBC

Ethernet over VDSL2 (BNC) LAN Extender

Connects over two Ethernet LANs over VDSL2 technology

1 BNC	2 RJ-45	100Mbps 60Mbps	VDSL2 Technology	1.5km Distance	Mini Size

CO/CPE Switch	Voice & Data	IEEE 802.3/3u	Auto MDI-X	Plug & Play

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
- Supports 1 x BNC connector for Ethernet over DSL2
- Supports 2 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 VDSL connection up to 1,500 meters over 5C2V coaxial cable
- 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 (BNC) Converter
- One User's Manual
- One 5VDC 2A External AC Power Adapter

OVERVIEW

UVE7312-MSBC, VDSL2 converter, is an access standard technology that allows carriers to deliver data up to 100Mbps/60Mbps more bandwidth in both downstream and upstream paths over the existing copper plant. The Ethernet over VDSL2 Converter featured signal conversion technology between standard Ethernet (10Base-T and 100Base-TX) and innovative VDSL2 over Ethernet on the coaxial cable 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 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 coaxial cable ranging
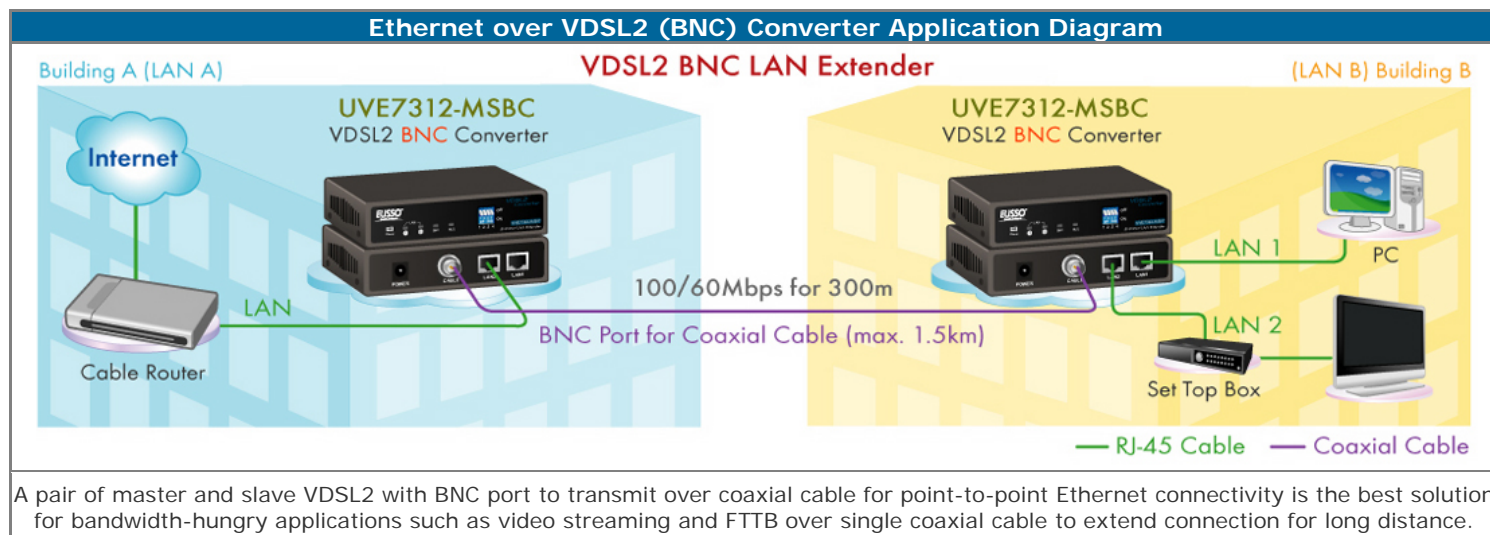
For network system integrators, this product is the best choice for planning centralized Internet access for hotels, offices, apartments and campus environment. In addition, it will allow operators to compete with cable and satellite providers by offering service such as high definition TV (HDTV), Video-on-demand, 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.

System Specifications	
Standards	IEEE802.3 10Base-TX IEEE802.3u 100ase-TX VDSL2 ITU-T G.993..1/2, SG15Q4 DMT compliance
Network Data Rate	VDSL2　：Up to 100/60Mbps (Downstream/Upstream) Ethernet：10/100Mbps
Mode Control	Master Mode：Acts as Master (CO) Slave　Mode：Acts as Slave　(CPE)
VDSL2 Speed	Downstream：100Mbps over 1000ft (300m) Upstream 　： 60Mbps over 1000ft (300m)
LAN Interface	2 X RJ-45 connector : 10/100M Fast Ethernet ports
VDSL2 Interface	1 X BNC connector : BNC Port
Cable Connection	RJ-45 (10Base-T) 　：UTP CAT. 3、4、5 (2-pair wire) RJ-45 (100Base-TX) ：UTP CAT. 5 (2-pair wire) 5C2V Coaxial Cable
Cable Length	Ethernet: Maximum 100 meters (UTP LAN cable) Coaxial　：Maximum 1,500 meters
Hardware Specifications	
LED indicators	Power、LAN1、LAN2、BNC、M/S (Master/Slave Selection)
Dimension	120 (L) x 90 (W) x 29 (H) mm
Weight	330g
Operating Temperature	0℃ ~ 50℃
Operating Humidity	5% ~ 95% non-condensing
Power Supply	5VDC, 2A, External Power Adapter
Dimension	120 (L) x 90 (W) x 29 (H) mm
Certification	FCC、CE、RoHS

Application Diagram

Ethernet over VDSL2 (BNC) Converter Application Diagram

A pair of master and slave VDSL2 with BNC port to transmit over coaxial cable for point-to-point Ethernet connectivity is the best solution for bandwidth-hungry applications such as video streaming and FTTB over single coaxial cable to extend connection for long distance.

ORDERING INFORMATIONS

Model	Description
UVE7312-MSBC	Ethernet over VDSL2 BNC converter with Master/Slave (CO/CPE) mode selection Switch