

BroadSwitch™ ENV0200

VDSL CPE Modem

The ENV0200 is an Ethernet over VDSL modem that connects to a BroadSwitch ENV1602 VDSL stackable switch to complete a VDSL network design. The ENV0200 is deployed at the 'tenant' location, and uses a switching architecture with one RJ-45 10/100Mbps Ethernet port and one VDSL port (with 2 RJ-11 connectors) to convert VDSL data back to Ethernet.

With just one pair of AWG-24 copper wire, you can easily connect two Ethernet networks together (maximum 1500 meters) with a maximum 15/17Mbps data rate.

Telephone service is maintained over the same wire pair while the VDSL switch and modem are in operation.



Multi-Tenant Units – CPE Solution

The ENV0200 provides a quick and cost-effective deployment solution for tenant side Customer Premise Equipment, enabling high speed VDSL networks in multi-unit buildings, such as residential (multi-dwelling units) and commercial (multi-tenant units) buildings, and hotels. By utilizing the existing telephony infrastructure, network installation is straightforward and requires no new wiring. With up to 15/17Mbps, Video on Demand, IP telephony and various broadband services can be easily provisioned.

- Complies with IEEE802.3, IEEE802.3u and IEEE802.3x standards
- 5 selectable transmission modes through DIP switch
- QAM (Quadrature Amplitude Modulation) line code
- Designed based on Frequency Division Duplexing
- Half duplex Back pressure and IEEE802.3x Full Duplex Pause frame flow control
- Built-in POTS/ISDN splitter
- Two RJ-11 connectors for each VDSL port, one for VDSL connection and one for POTS/ISDN connection
- Voice and data communication can be shared on the existing telephone wire simultaneously
- Support up to 1536 bytes packet size, 802.1Q VLAN tag transparent
- Support extensive LED indicators for network diagnostics

Specifications

Model	ENV0200
Mode switching	5 position DIP switch
Mode/Distance (Based on AWG24 wires)	ANSI - 15/4Mbps asymmetrical rate up to 4100 feet (1.25km) ETSI - 11/4Mbps asymmetrical rate up to 4100 feet (1.25km) VE-5 - 5/5 Mbps symmetrical rate up to 5000 feet (1.5km) VE-10 - 11/11Mbps symmetrical rate up to 4100 feet (1.25km) VE-15 - 15/17Mbps asymmetrical rate up to 3500 feet (1.05km)
Cables	10Base-T: 2-pair UTP Cat.3,4,5 up to 100m (328ft) 100Base-TX: 2-pair UTP Cat.5, up to 100m (328ft) VDSL: twisted-pair telephone or ISDN wires (AWG24 or better) up to 5000ft (1.5km)
Splitter	Built-in splitters for POTS/ISDN connection
System Memory	8k bytes Ethernet transmit and 16k bytes Ethernet receive buffers
Dimensions (WxDxH)	147x118x30mm
Mounting Type	Desktop placement
Power Supply	12V/1A DC external power adapter
Operational Environment	Temperature: 0~50 degree C (operating), -20~70 degree C (storage) Humidity: 10~90%, non-condensing
Certification	FCC Class B, CE
Standard Compliance	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3x Full Duplex PAUSE frame flow control Ethernet over VDSL

Ports

10/100Base-TX	1 RJ-45
VDSL	1 RJ-11

LED

System	PWR, STATUS
Ethernet	100, LNK/ACT, FDX/COL
VDSL	LNK, ACT

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