

D-Link Corporation

Stand Alone Ethernet-to-VDSL bridge

Product External Specifications

(Preliminary External Specification)

Product Model Name: DVE-301

Version: 0.2

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**Prepared By: Philip Lee / Product Planning
Digital Home**

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DVE-301 Specification Changed History

Version	Revised Date	Person Name	Content Revised
0.10	05/17/01'	Philip Lee	Initial draft
0.20	09/10/01'	Philip Lee	p4,change ISDN splitter to ISDN.POTS splitter P6,add EMI – FCC class B , C-Tick Add Safety – UL 950, CSA 1950

➤ ***Introduction***

D-Link new Ethernet-over-VDSL networking solution delivers 5-15 Mbps speed over existing Category 1/2/3 wiring. With Ethernet-like performance that extends up to 5,000 feet, it enables next-generation simultaneous voice, video and data services including high-speed Internet access, video streaming . DVE-301 is a cost-effective, easy-to-deploy technology ideal for multiunit building (MxU) , like department , hotel , multi-tenant , etc....

DVE-301 bridges VDSL and Ethernet, and provides one RJ-45 Ethernet connection and two RJ-11 connectors—one for the wall and one for the telephone. This CPE device can be placed on a desk, or mounted on a wall. This CPE device also supports POTS traffic—including ISDN or digital phones—that coexists Ethernet-over-VDSL and telephone-service over the same line via a built-in POTS splitter .

➤ *Features*

- VDSL
 - Provides a RJ-11 connector for wall connection
 - Complies with the approved ETSI VDSL requirements
 - Supports symmetrical data transfer rate depend on distance between Line Terminal ;
 - 5Mbps , 5000 feet
 - 10Mbps , 4000 feet
 - 15Mbps , 3500 feet
 - Configured as slave (NT) VDSL physical device
 - Supports sleep mode operation.
 - Support power back-off algorithm
 - One LED to indicate VDSL link status
- Telephone
 - Provides a RJ-11 connector for phone connection
 - Built-in ISDN/POTS splitter
- Ethernet
 - Provides a RJ-45 connector for 10/100 Mbps Ethernet connection
 - Complies with IEEE 802.3u specification
 - Supports Auto-Negotiation
 - Supports Auto-MDIX
 - Supports IEEE 802.3x Flow Control in Full Duplex mode
 - Supports Back Pressure in Half Duplex mode
 - Embedded 8K-bytes transmit and 16K-bytes receive buffers
 - Up to 32 Ethernet MAC address filtering and self-learning
 - Two LED to indicate Ethernet link and activity
- DC power adapter connector
 - Provides a connection for 7.5V/1A DC power adapter
 - One LED to indicate power status

Hardware Specifications

1. Key Components

- Infineon PEB 22822 , 10BaseS Data Pump
- Infineon PEB 22811, VDSL Analog Front End
- Infineon PEB 22810, VDSL Line Driver
- Broadcom BCM5221, 10/100Base-TX Transceiver

2. LED description

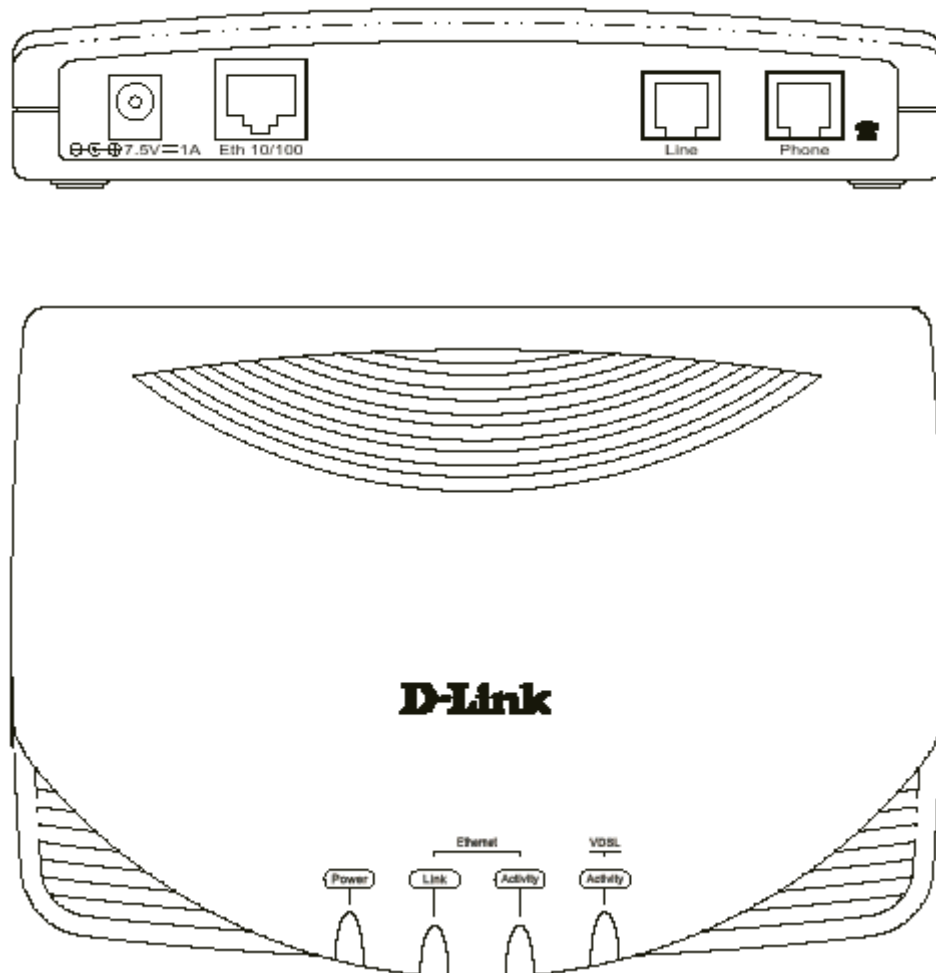
- 1) Power : OFF (power off) , ON (power on)
- 2) Link (Ethernet): OFF (No Ethernet link) , ON(Ethernet link established) ,
- 3) Activity (Ethernet): OFF (No Ethernet activity) , BLICKING (Ethernet is transmitting or receiving)
- 4) Link (VDSL) : OFF (No VDSL link) ; ON (VDSL link established)

3. Power supply

- External power supply : 7.5V/1A DC input

4. Dimension & Outlook

165 mm * 118 mm * 26 mm



5. EMI and Safety

- CE class B , BSMI 乙類 , FCC class B , C-Tick (EMI)
- TUV , CSA 950 , UL 1950 (Safety)

6. Environmental specification

- Operating temperature : 0°C to 50°C
- Storage temperature : -25°C to 55°C
- Operating relative humidity : 10% to 95% non-condensing