

D-Link Corporation

Ethernet-to-VDSL bridge with 4-port switch

Product External Specifications

(Preliminary External Specification)

Product Model Name: DVE-304

Version: 0.20

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DVE-304 Specification Changed History

[illegible]

➤ ***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-304 is a cost-effective, easy-to-deploy technology ideal for multiunit building (MxU) , like department , hotel , multi-tenant , etc....

DVE-304 bridges VDSL and Ethernet, which builds in a four-port RJ-45 10/100M Ethernet switch for PC 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. DVE-304 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 four RJ-45 connectors 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
 - Support 802.1d Spanning Tree protocol
 - 1M bit on-chip packet buffer
 - Support 2K unicast-address
 - Two LED each port to indicate Ethernet Link/Activity and Speed .
- DC power adapter connector
 - Provides a connection for 7.5V/1A DC power adapter
 - One LED to indicate device's 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
- APC 77122 CPE VDSL hybrid/filter (or Delta 2018B)
- APC 77101 ISDN/POTS splitter
- Broadcom BCM5325, 10/100Base-TX Switch

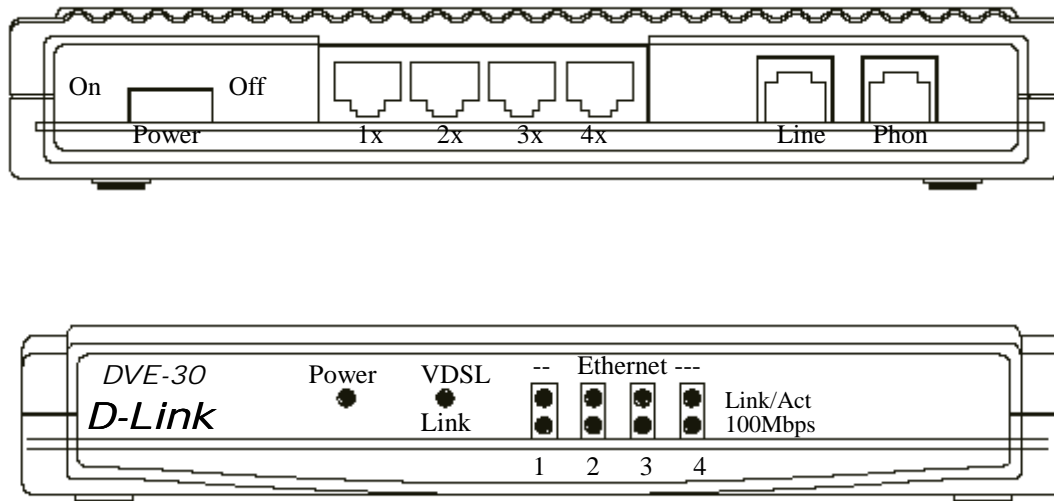
2. LED description

Power	green	On (power on) ; Off (power off)
Link(VDSL)	green	On (VDSL link estabilished) ; Off (No VDSL link)
Link/Act (Ethernet)	green	On (Ethernet link estabilished) ; Blicking (Ethernet is transmitting or receiving)
100Mbps (Ethernet)	green	On (100Mbps) ; Off (10Mbps)

3. Power supply

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

4. Outlook



5. EMI Certification

- CE class B , VCCI Class B , BSMI Class B , CE Class B , C-Tick Class B
(by customer's request)

6. Safety

- UL , CSA , TUV/GS (by customer's request)

7. Environmental specification

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