D-Link®

VDSL Bridge Remote Unit

VDSL Bridge Remote Unit With Fast Ethernet Interface

The DEV-301 VDSL Bridge Remote Unit leverages the extraordinary bandwidth promise of VDSL technology, the next step in the delivery of new high-speed Internet applications to home and office users. As a CPE (customer premise equipment), this device is quick, easy and economical to install. It provides seamless bridging from VDSL to Ethernet, allowing a personal computer or a LAN (connected through a router/Internet gateway) to connect to a VDSL line. This devices provides a VDSL interface and a Fast Ethernet port for connection to a computer or Ethernet device.

High-speed Internet Access

With this Bridge Remote Unit (also called "VDSL modem"), you can access high-speed VDSL for smooth delivery of streaming media, video conferencing, media-rich Web surfing and intensive data exchange. VDSL operates over the copper wires in your phone line in much the same way that ADSL does, but at as high as 52Mbps downstream (to your computer) and 16Mbps upstream (from your computer). This compares with 8Mbps downstreams and 800Kbps upstreams for the highest ADSL G.dmt full rate.

Proven Performance at 1,500 Meters

The device delivers VDSL speeds at extended cable distance coverage. Proven distance is 1,050 meters (3,000 feet) on the ordinary phone line or Cat. 3 wiring. Depending on the quality of the cable (Cat. 4 or 5 or better), your data throughput can be up to 5Mbps at 1,500 meters, 10Mbps at 1,200 meters, and 15Mbps at 1,050 meters.

Easy Installation

The DEV-301 can be installed by any computer user. Normally, you will receive your Bridge Remote Unit from your service provider, but the DEV-301 is easy to install, and you can install it by yourself. It provides two RJ-11 ports, one to connect to a VDSL line (wall socket), the other to an ordinary phone. An RJ-45 port plugs to an Ethernet interface of your computer or Internet gateway/router.

Built-in POTS Splitter

The DEV-301 also supports POTS traffic, including ISDN or digital phones that coexists with Ethernet over VDSL and telephone service over the same line via a built-in POTS splitter. This allows you to have ISDN data while staying connected to VDSL. Analog voice communication is through the RJ-11 POTS port that can be connected to a telephone set.

Complete FTTH & FTTB Solution

The DEV-301 is part of D-Link's complete Fiber to the Home (FTTH)/Fiber to the Building (FTTB) high-bandwidth service solution to multi-unit building such as hotels, residential and commercial buildings. It works with D-Link multi-port Ethernet over VDSL switches such as DHS-3224V, and D-Link multi-port voice/VDSL splitters such as DHS-24SP, which can be installed near the patch panel at the end-users' buildings, or at the service provider's sites.

Features

- *Single-port Ethernet-to-VDSL bridge*
- *VDSL leading standard for broadband equipment deployment in commercial/residential buildings with high-density populations*
- *Complies with ETSI VDSL requirements*
- *10/100Mbps Fast Ethernet interface for connection to a computer or Internet gateway/router*
- *Symmetrical data transfer rates of up to 15Mbps on Ethernet line*
- *Extended cable distance coverage allows computers to locate far away from VDSL line*
- *RJ-11 VDSL wall line connection*
- *Additional RJ-11 connector for phone connection*
- *Built-in ISDN/POTS splitter*
- *Supports sleep mode operation **
- *Supports power back-off algorithm ***
- *Attractive design to lay flat or wall mounting*
- *Configured as slave (NT) VDSL physical device*

** Function disabled by default, can be enabled through CO switch runtime codes.*
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DEV-301

Technical Specifications

VDSL Bridge Remote Unit

Device

Device Ports
- 1 VDSL RJ-11 for wall line connection
- 1 RJ-11 for phone connection
- 1 10/100Mbps RJ-45 Fast Ethernet

Key Components
- Infineon PEB 22822, 10BaseS Data Pump, QFP
- Infineon PEB 22811, VDSL Analog Front End
- Infineon PEB 22810, VDSL Line Driver
- VIA VT6103 Ethernet PHY

LED Indicators
- Power
- VDSL Link
- Ethernet link/Act
- Ethernet 10Mbps, 100Mbps speeds

VDSL

Standard
ETSI VDSL

Configuration
Slave (NT) VDSL physical device

Function Support
- Built-in ISDN/POTS splitter
- Sleep mode operation *
- Power back-off algorithm **

Symmetrical Data Transfer Rates
- 5Mbps @ 1,500 m (5,000 ft) distance from line terminal
- 10Mbps @ 1,200 m (4,000 ft) distance from line terminal
- 15Mbps @ 1,050 m (3,500 ft) distance from line terminal

Ethernet

Standards
- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet
- ANSI/IEEE 802.3 NWay auto-negotiation
- IEEE 802.3x Flow Control

Full/half Duplex
Full/half duplex for 10/100Mbps speeds

Twisted-pair Rx Reverse Polarity
Auto-correction

MAC Address Table
32 entries (per device)

RAM Buffer
- 8KBytes transmit (per device)
- 16KBytes receive (per device)

Flow Control
- IEEE 802.3x Flow Control in full duplex mode
- Back pressure in half duplex mode

Physical & Environmental

Power Input
- 9V AC/ 1A
- Through external AC power supply

Dimensions
165 mm x 118 mm x 26 mm

Weight
250 grams

Operating Temperature
0˚ - 40˚C

Storage Temperature
-25˚ - 55˚C

Humidity
10% - 95% non-condensing

Emission (EMI) Certification
- FCC Class B
- CE Class B
- BSMI
- C-Tick

Safety Certification
- CSA 950
- UL 1950
- TUV

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ACN 052 202 838

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Ordering Information

DEV-301	Ethernet-to-VDSL bridge

Please specify one of the following after the model number:

/U	Includes no AC power adapter
/A	Includes an North America standard AC power adapter
/E	Includes an EU standard AC power adapter
/B	Includes a UK standard AC power adapter
/N	Includes an Australia standard AC power adapter
/CN	Includes a China standard AC power adapter

D-Link®

U.S.A.	TEL: 1-949-788-0805	FAX: 1-949-753-7033	www.dlink.com
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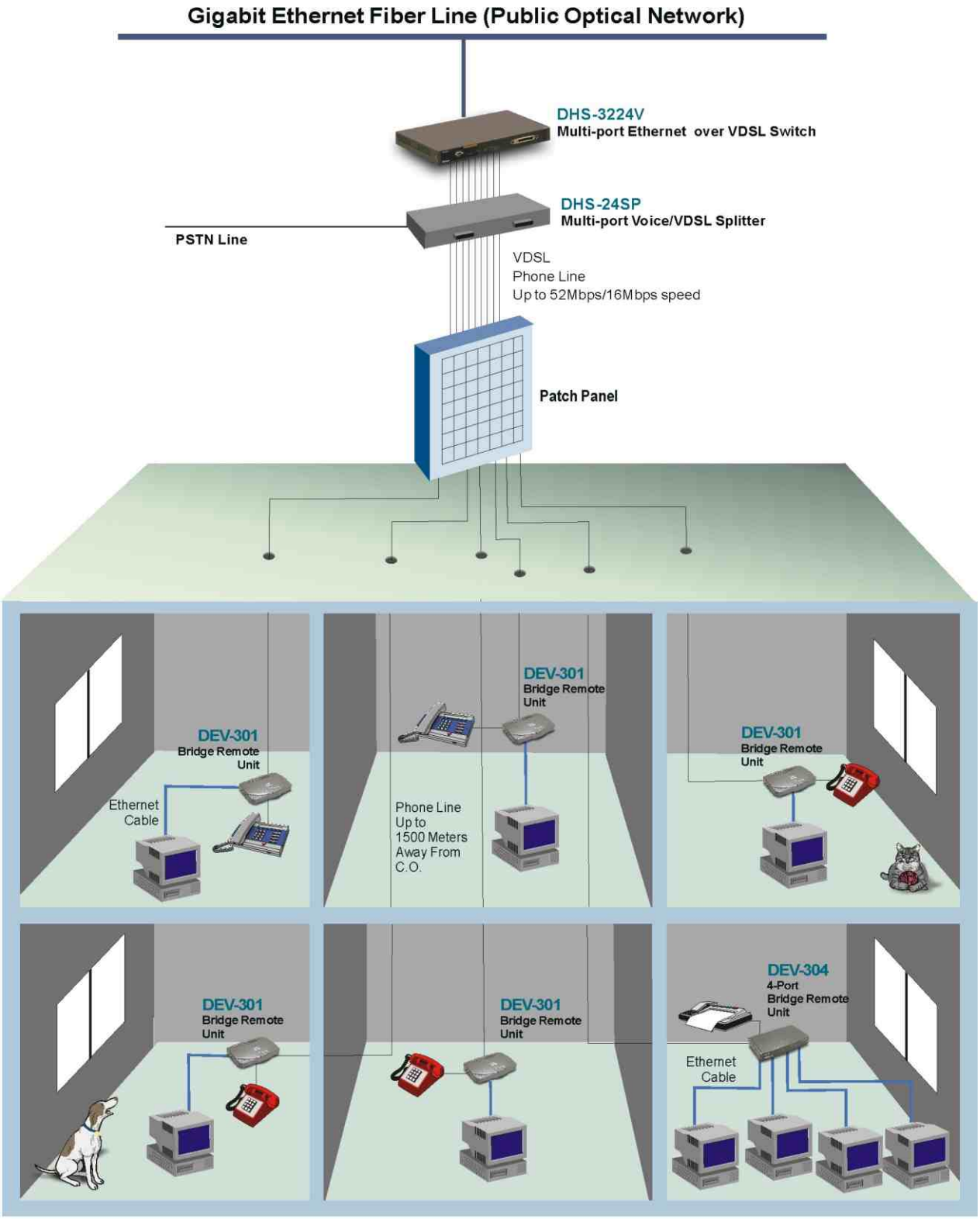

VDSL Bridge Remote Unit Deployment in Multi-Unit, Multi-Tenant Building.