



VDSL Data & Voice Modems

Model 1058 Series Standalone & Rack Cards

Take data and voice services faster and farther with Patton's 1058 VDSL modem! Extend the reach of your network up to 4,656 ft (1.42 km) at 12.5 Mbps over a single voice-grade twisted-pair wire.

Ethernet Extension

Overcome the 328 ft (100 m) limitation of Ethernet with a full-duplex 12.5 Mbps link at distances up to 4,656 ft (1.42 km)

Auto Sensing Full-Duplex Ethernet

Auto 10 or 100 Base-T and full or half-duplex Ethernet operation

Transparent LAN Bridging

Passes higher layer protocols and supports 802.1Q VLAN tagging

Automatic Learning, Aging, and Filtering

Only allows packets with addresses outside the LAN to be forwarded

Full-Service Integration

Supports voice, data, and high quality, real-time, bi-directional streaming video

Line Sharing

Supports voice, data, and high quality, real-time, bi-directional streaming video

Using new and exciting VDSL technology, the Patton Model 1058DV provides high speed Ethernet and voice connections between LANs or other network enabled devices. The Model 1058DV's line-sharing capabilities enable users to download files from the Internet, surf the WWW, and answer e-mail messages while simultaneously talking on the phone or using a fax machine. VDSL's unparalleled performance supports these services at distances up to 4,656 ft (1.42 km) over a single pair of voice-grade wire—all at 12.5 Mbps!

The Model 1058DV is compact, easy to install, and transparent to higher layer protocols. Plug-and-play made easy—simply make the Ethernet, voice (POTS/ISDN), VDSL link, and power connections, and you're ready to operate. The Model 1058DV's will auto-sense

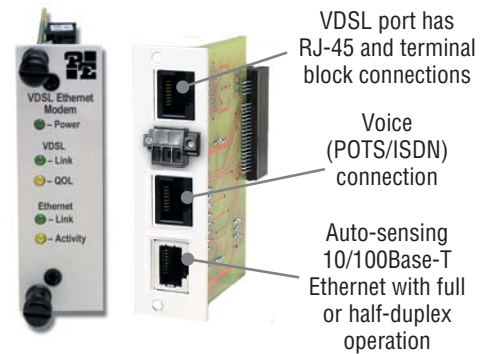
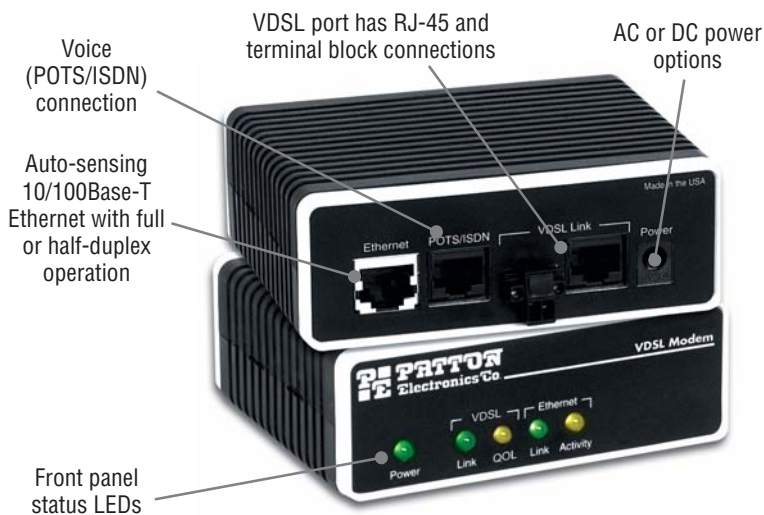
and configure for 10Base-T or 100Base-T, as well as full or half-duplex Ethernet operation. No configuration required!

With full service integration over an existing copper infrastructure, the Model 1058DV is an effective solution for providing data and voice services for educational facilities, corporate and government offices, military installations, industrial complexes, CLECs, and ISPs. The Model 1058D offers a more economical solution for those applications not requiring POTS/ISDN services.

For more information, visit us at www.patton.com.

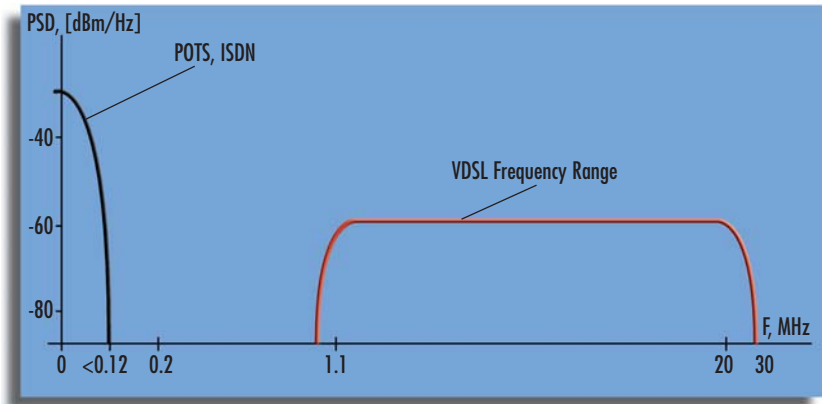


Special Rates Available
Call for Details



What is VDSL?

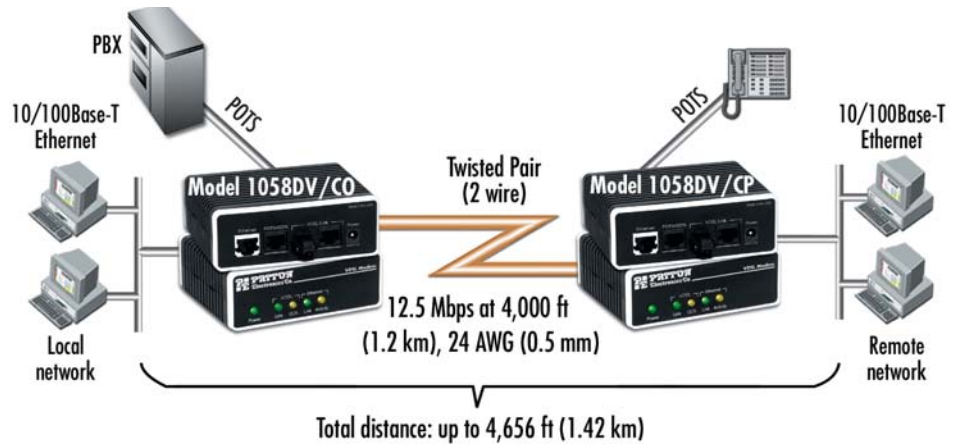
VDSL technology (very high bit-rate digital subscriber line) allows for the simultaneous transmission of voice, data, and video on standard existing phone-grade copper wire. VDSL is the fastest DSL technology currently available. Depending on the intended applications, VDSL can be configured for symmetrical or asymmetrical operation. VDSL's high bandwidth allows for applications such as high-definition television, video-on-demand (VOD), high quality video conferencing, medical imaging, fast Internet access, and regular voice telephone services all over a single voice-grade twisted pair. Achievable VDSL distances may vary depending on data rate, gauge/type of wire, and noise/cross-talk environment.



Frequency Division Multiplexing (FDM) allows one pair of wires to simultaneously transport data (VDSL) and voice (POTS/ISDN) traffic. The lower frequencies are reserved for voice (POTS/ISDN) and the higher frequencies for data (VDSL).

Typical Application

Used in pairs (Central Office and Customer Premise), the Model 1058 establishes a high-speed, line sharing, symmetrical 12.5 Mbps voice and data link. The Model 1058 inter-connects two geographically separated LANs over a single pair of voice-grade wire. Operation is simple: packets destined for the remote LAN are sent transparently, at full line rate, to the peered LAN. The Model 1058DV's built-in POTS/ISDN splitter allows users to simultaneously use the phone or fax machine, while surfing the web, downloading files or receiving e-mails.



Specifications*

VDSL line interface

RJ-45 (pin 4 = ring; pin 5 = tip) and two-position removable terminal block (supports 19-26 AWG or 0.9-0.4 mm wire)

Ethernet interface

8-position shielded RJ-45. Auto-sensing 10/100Base-T with half or full-duplex operation

POTS/ISDN interface

RJ-45 (pin 4 = ring; pin 5 = tip)

Protocol

Transparent to high layer protocol. Supports 802.1Q VLAN tagging

Modulation

QAM (Quadrature Amplitude Modulation)

Duplexing Method

FDD (Frequency Division Duplexing)

Frequency Range

VDSL: 1–8 MHz; POTS/ISDN: 0–120 kHz

Transmission

VDSL line rate: 12.5 Mbps; Data rate: 10 Mbps full-duplex

Surge Suppression

VDSL line maximum current surge: 20kA (8/20µs) gas tube

Front Panel Indicators

Power, VDSL Link and QOL (quality of link), Ethernet Link and Activity Status

Power Supply

External AC and DC options: 120VAC, and universal input (UI)—100–240 VAC, or DC-48 VDC, -24 VDC, and -12 VDC

Compliance

FCC Part 15A and Part 68A & B (1058DV version only), CE Mark, EMC Directive 89/336/EEC, Low-Voltage Directive 73/23/EEC

Environment

Temperature: 32–122°F (0–50°C)
Humidity: Up to 90% non-condensing

Dimensions

Standalone

1.5H x 4.13W x 3.75D in.
(3.81H x 10.5W x 9.53D cm);

Rack Card

3.0H x 0.83W x 7.84D in
(7.6H x 2.1W x 19.9D cm)

Weight

Standalone

0.4 lbs (0.18 kg) without power supply

Rack Card

0.3 lbs (0.14 kg) with rear card

* Specifications subject to change without notice.

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