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!
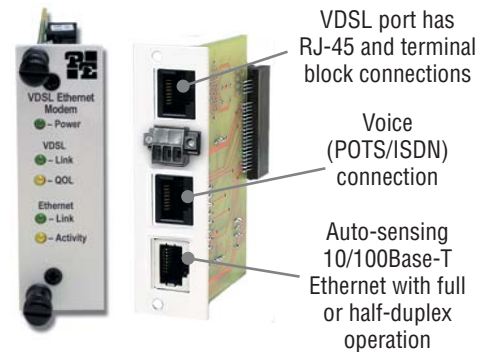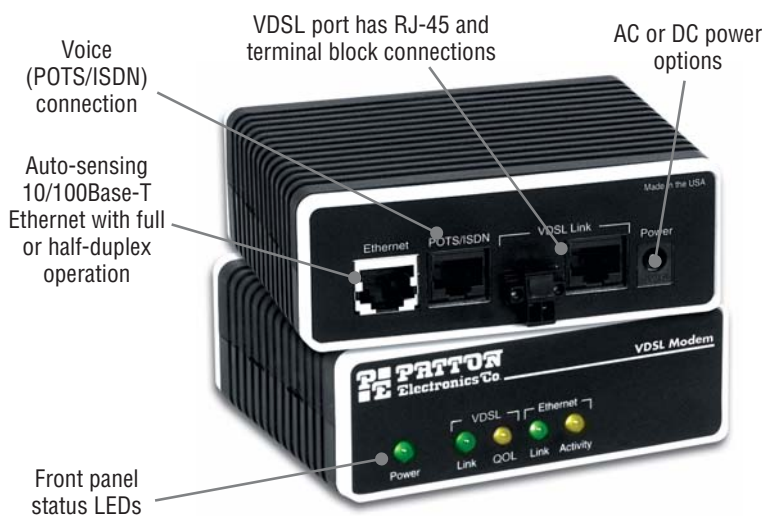
The Model 1058DV is compact, easy to install, and transparent to higher layer protocols. Plug-and-play made easy—simply make the Ethernet, voice (POTS/ISDN), VDSL link, and power connections, and you're ready to operate. The Model 1058DV's will auto-sense and configure for 10Base-T or 100Base-T, as well 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 ecomical solution for those applications not requiring POTS/ISDN services.

GET YOUR ADVANCE SHIP 5 YEARS ENHANCED WARRANTY

Special Rates Available Call for Details

Voice (POTS/ISDN) connection

VDSL port has RJ-45 and terminal block connections

AC or DC power options

Auto-sensing 10/100Base-T Ethernet with full or half-duplex operation

Front panel status LEDs

VDSL port has RJ-45 and terminal block connections

Voice (POTS/ISDN) connection

Auto-sensing 10/100Base-T Ethernet with full or half-duplex operation

PATTON ®

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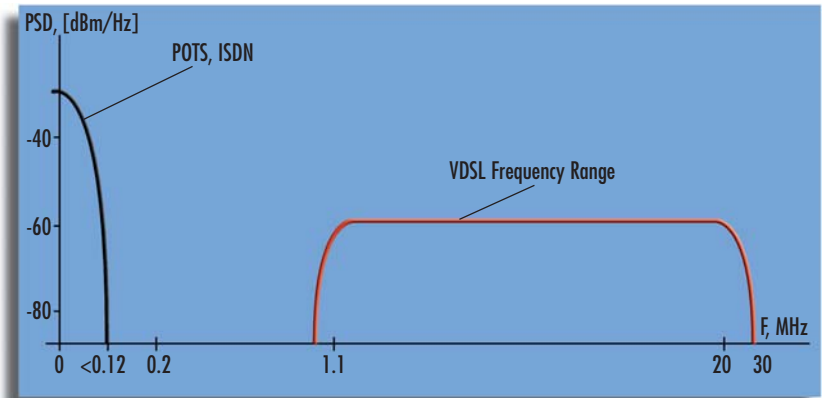
Frequency Division Multiplexing (FDM) allows one pair of wires to simultaneously transport data (VDSL) and voice (POTS/ISDN) traffic. The lower frequencies are reserved for voice (POTS/ISDN) and the higher frequencies for data (VDSL).

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 1058DVs 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.
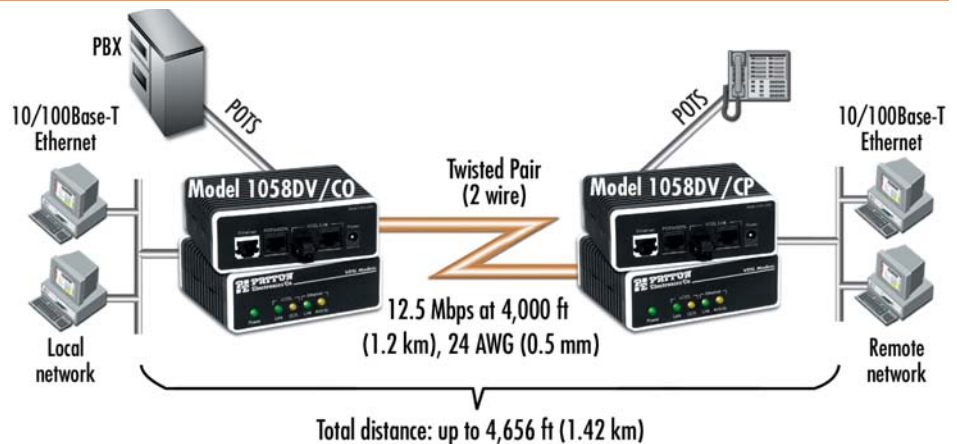
Specifications*

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

* Specifications subject to change without notice.

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 suppply

Rack Card
0.3 lbs (0.14 kg) with rear card