

VTC4085545

Variable Rate VDSL Modems

Go faster with more control with Patton's VTC4085545. Provide high speed end-to-end connectivity for voice and user-selectable asymmetric or symmetric data over a single, voice-grade, twisted-pair line.



Features

- Ethernet Extension--Extends Ethernet distances over 1 mile (1.6 km) over 2-wire 24 AWG unconditioned lines
- Switch Selectable--Asymmetrical or symmetrical line rates up to 16.67 Mbps!
- Auto-sensing Full-Duplex Ethernet--Auto-selected 10Base-T or 100Base-TX; supports full or half-duplex Ethernet
- Integrated MDI-X switch to allow easy connection to any computer or LAN
- Transparent LAN bridging--Passes higher layer protocols and supports 802.1Q VLAN tagging
- Plug-and-Play--Makes installation a snap
- 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

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 DIP switch capable of disabling 100 Mbps full-duplex for equipment that does not support 802.3X (Pause Packets)

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: Up to 16.67 Mbps; Data rate: Up to 15 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 optional DC-48 VDC, -24 VDC, and -12 VDC

Compliance: FCC Part 15A, 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

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Vox Technologies announces the release of the VTC4085545 high speed VDSL data and voice modems. The VTC4085545 VDSL modems extend Ethernet distances up to 4,656 ft (1,418 m) while providing data and voice services over an existing pair of telephone grade wire. Featuring a blazingly fast 12.5-Mbps symmetrical line rate and line-sharing capabilities via a built-in POTS/ISDN splitter, it enables users to download files, surf the web, and answer email messages--all while talking on the phone or using a fax machine.

"Extending voice and data at a line rate of 12.5 Mbps, and doing it over a pair of existing copper lines, is what makes the VTC4085545 such an exciting and cost effective solution for vertical campus environments and over the last-mile," said Bob Thompson, Vox's Product Line Manager of the Micro Products Group. "The addition of high speed VDSL capabilities to our already extensive xDSL product line, means customers can select from data rates of 128 kbps up to 12.5 Mbps, using 10Base-T Ethernet, T1/E1, G.703/G.704, voice, and a variety of serial interfaces."

The VTC4085545, operating in pairs as central office and customer premise units, is compact, easy to install, and transparent to higher layer protocols. Simply hook the units up to power, network, phone line, and copper pair connections and you're ready to operate--no configuration required! The VTC4085545 will auto-sense and self-configure for 10Base-T or 100Base-T and full or half-duplex Ethernet operation. An added benefit of the on-board POTS/ISDN splitter--available on the VTC4085545--is that it requires no power, so it can provide a "life-line" voice connection.

The VDSL technology built into the VTC4085545 is ideal for use in high quality real-time bi-directional video streaming, medical imaging, high speed always-on Internet access, and standard voice telephone applications. These features make the VTC4085545 the perfect choice for MTU/MDU and campus environments such as office buildings, hotels, educational facilities, industrial complexes, government agencies, and military installations. Whether you are looking to extend your network connections or deliver integrated services to the end-user, the VTC4085545 VDSL Modem is the perfect choice.