ipDSL™ ACCESS PRODUCTS

Combine ITU/ETSI standards-based transmission with high speed networking, and deliver broadband IP access with Patton's Model 3201 DiamondLink™ G.SHDSL Router.

G.SHDSL High-Speed Router

Patton Model 3201 *DiamondLink* Router

Combining standards-based ITU/ETSI G.SHDSL transmission with high speed IP routing, the Model 3201 *DiamondLink* is perfect for bandwidth intensive applications such as LAN-to-LAN networking, multimedia services, and e-commerce transactions.

Based on the International Telecommunications Union (ITU) and European Telecommunications Standardization Institute (ETSI) G.SHDSL G.991.2 standard, the Patton 3201 *DiamondLink* router enables providers to extend their reach-and-range by delivering rate-adaptive nx64 symmetrical speeds from 192 kbps to 4.6 Mbps—*all over a single pair of wires.*

The Model 3201 offers easy installation and turn-up. With G.hs support for auto-line configuration and ATM, PPP, or Frame Relay, the Model 3201 offers simple interfacing to any network. Its standard IP feature set provides bridging and routing functionality along with advanced IP features like NAT and Firewall, and optional IPSec-based VPN. Get point-and-click control with the Model 3201's built in HTTP/SNMP management interfaces.

As part of Patton's family of ipDSL products, the Model 3201 offers a complete, managed, end-to-end system when used with Patton's central site ipDSLAM equipment. With these features the Model 3201 offers the clear and easy choice for mission-critical networking.

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

G.SHDSL speeds to 2.3/4.6 Mbps
Get broadband single-pair connectivity with TC-PAM full-duplex symmetric rates and distances exceeding 32,800 feet (9,754 meters)

ATM, PPP, and Frame Relay
Versatile interface options enable simple deployment into any network

NAT/NAPT, Firewall, DHCP
Powerful routing features make shared Internet connectivity simple and secure

Interoperable with DSLAMs
Take advantage of Patton reliability whether you connect back-to-back or to a third-party DSLAM.

10/100 Ethernet with MDI-X
Easily connect to any computer or LAN—the built-in crossover switch eliminates messy configuration cables

WWW/SNMP Manageable
Built-in VT-100 console port makes setup a snap, and you can use the embedded HTTP/SNMP agent to manage the Model 3201 from anywhere in the world.

PATTON Electronics Co.

- VT-100 console port with WWW and SNMP management
- AC/DC power options
- 10/100 Ethernet with full-duplex operation
- Proven Patton design
- Standard G.SHDSL port connects back-to-back, or to Patton ipDSLAM equipment, or to third-party DSLAMs
- Built-in cross-over switch
- Front panel LEDs show operational status at a glance

Model 3201 ipCPDSL Router

Why use our Model 3201?

The Patton Model 3201 *DiamondLink* ipCPDSL Broadband router delivers all the advanced features for secure, reliable, and high speed Internet data connections. It cost-effectively combines ease-of-use with powerful data routing to make shared Internet connectivity simple and easy.

With NAT support, the Model 3201 offers convenient and economical operation by using a single IP address while the integrated DHCP server automates IP address assignment for connected LAN computers. Security is standard with built-in firewall and violation alerting features that protect the network from would-be intruders.

Patton stands behind our products—we are the only company in the industry offering *free* configuration support, *free* technical services, and a minimum of a *one-year warranty* on all our products.

3201 Competitive Positioning

		Patton 3201	Cisco 828	ZyXel 782
Connectivity	Line Type	**G.SHDSL**	G.SHDSL	G.SHDSL
	ATM Encapsulation	**YES**	Yes	YES
	Native PPP/Frame Relay	**YES**	NO	NO
	Bridging/PPPoE/IPoATM	**YES**	Yes	Yes
	NAT/MultiNAT/DHCP	**YES**	Yes	Yes
	Statefull Firewall/ACL	**YES**	Yes	Yes
	Security Alerts	**YES**	Yes	NO
Ease of Use	Status LEDS	**8**	10	6
	ENET Cross-Over Switch	**YES**	Yes	NO
	10/100 Ethernet	**YES**	NO	Yes
	Built-In Web Mgmt	**YES**	NO	NO
	Tech Support	**FREE**	$$$	Included
	Software Upgrades	**FREE**	$$$	Included
	Compact Unit	**Compact**	Large	Large
	Best Value	**YES**	$$$	$$$

Specifications

DSL	G.991.2 ITU G.SHDSL Annex A and Annex B, G.994.1 G.hs. nx64 data rates over 2-wire full-duplex to 2.3/4.6 Mbps, symmetrical, TC-PAM encoding. Distance of 32,800 ft (9.9 km) at 192 kbps to 18,000 ft (5.6 km) at 2.304 Mbps.
DSL Connection	Shielded RJ-11F isolation per IEC 950; RJ-45 available
Ethernet Connection	10/100Base-T, Auto-Sensing, Full/Half-Duplex operation; built-in MDI-X
Management	EIA-561 RJ-45 RS-232, VT-100 CLI, TELNET, Embedded WEB/HTTP, SNMP, Logging or SMTP on events: POST, POST errors, line/DSL, PPP/DHCP, IP MPOA AAL5 and Bridged encapsulation RFC 2684 and RFC 1577 IPoATM. LLC/VC Mux support.
ATM Support	UNI 3.0, 3.1, and 4.0 ATM QoS with UBR/CBR/nrt-VBR/rt-VBR and per-VC queuing and shaping. Peak cell rate shaping on a per-VCC basis up to 32 active VCCs I.610 OAM network management including AIS/RDI, loop-back and performance monitoring.
Protocol	Enhanced ILMI 4.0 for auto-configuration of ATM PVCs, IP (RFC 741), TCP (RFC 793), UDP (RFC 768), ICMP (RFC 950), ARP (RFC 826). IP Router with RIP (RFC 1058), RIPv2 (RFC 2453), OSPF (RFC 2328) Integrated DHCP Server (RFC 2131). Selectable IP
Protocol (continued)	leases and MAC/IP pairings. DHCP relay agent (RFC 2132/RFC 1542) with 8 address pools. DNS Relay. IGMP v1 and v2. IP-in-IP (RFC-2003) encapsulation, Ethernet Bridging. NAT/NAPT with integrated application support, MultiNat with 1:1 mapping, Many:1, Many:Many mapping, NAT Port/IP redirection and mapping.
Security	DoS Detection/protection. Intrusion detection, Logging of session, blocking and intrusion events and Real-Time alerts, Password protected system management with a username/password for console and virtual terminal, Packet filtering firewall for controlled access to and from LAN/WAN. Support for 255 rules in 32 filter sets. 16 individual connection profiles. Access list determining up to 5 hosts/networks which are allowed to access management system SNMP/HTTP/TELNET
Indicators	8 LEDs Power, DSL: Link, TX, RX, ENET: Link, 100M, TX RX
Power Supply	External universal 90-260 VAC input or -48 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: 5–90%, non-condensing
Dimensions	4.17W x 1.52Hx5.0L in. (10.6W x3.9H x12.7L cm)

PATTON Electronics Co.

7622 Rickenbacker Drive
Gaithersburg, MD 20879 USA
Phone **+1-301/975-1000**
Fax **+1-301/869-9293**
E-mail **marketing@patton.com**
URL: **www.patton.com**

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