



G.SHDSL High-Speed Routers

Model 3201 & 3241 *DiamondLink* Routers

Combine ITU/ETSI standards-based transmission with high speed networking, and deliver broadband IP access with Patton's Model 3201 and 3241 *DiamondLink*™ G.SHDSL Routers.

G.SHDSL speeds to 2.3/4.6 Mbps

Get broadband single-pair connectivity with TC-PAM full-duplex symmetric rates and distances exceeding 30,000 feet (9.4 km)

ATM, PPP, and Frame Relay

Versatile interface options enable simple deployment into any network

NAT/NAPT, Firewall, IDS, ACL

Powerful security features simplify internet connectivity

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 unit from anywhere in the world.

Combining standards-based ITU/ETSI G.SHDSL transmission with high speed IP routing, the *DiamondLink* routers are perfect for bandwidth intensive applications such as LAN-to-LAN networking, multimedia services, and network gateway access.

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 2.3 Mbps, and the 3241 *DiamondLink* router offers speeds of up to 4.6 Mbps—all over a single pair of wires.

The *DiamondLink* routers offer easy instal-

lation and turn-up. With G.hs support for auto-line configuration and ATM, PPP, or Frame Relay, the *DiamondLink* routers offer simple interfacing to any network. The standard IP feature sets provide bridging and routing functionality along with advanced IP features like NAT, Firewall and Intrusion Detection (IDS). Get point-and-click control with the built in HTTP/SNMP management interface.

As part of Patton's family of ipDSL products, the Models 3201 & 3241 offer a complete, managed, end-to-end system when used either back-to-back or with Patton's central site ipDSLAM equipment. With these features the *DiamondLink* routers offer the clear and easy choice for mission-critical networking.

Visit www.patton.com for more information.

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

Why use our Model 3201/3241?

The Patton DiamondLink Broadband routers deliver 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 & 3241 offer 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 intrusion detection 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.

Competitive Positioning

	Patton 3201/3241	Cisco 828	ZyXel 782
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
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-T 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 30,000 ft (9.4 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 3.1, 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), Integrated DHCP Server (RFC 2131). Selectable IP 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.

Protocol (continued)	NAT/NAPT with integrated application support, MultiNat with 1:1 mapping, Many:1, Many:Many mapping, NAT Port/IP redirection and mapping.
Frame Relay (Keyed feature)	Frame Relay over DSL. Encapsulates IP traffic from Ethernet port into Frame Relay according to RFC-1490.
Security	DoS Detection/protection. Intrusion detection, Logging of session, blocking of 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 100-240 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)

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