

## G.SHDSL Access Products



# ipRocketLink Serial G.SHDSL Model 3087 Bridge/Router

The Model 3087 is a low-cost G.SHDSL Serial Bridge/Router supporting speeds up to 2.3 Mbps over two wires.

### nx64 Rates to 2.3 Mbps

With multiple full-duplex symmetric rates available, users select the bandwidth option they need.

### Low-Cost Fixed Interfaces

Multiple interface options to choose from: T1/E1 (G.703/G.704), X.21, and V.35.

### Firewall Support

IDS with blacklisting. ACL support for IP and MAC based filtering.

### IP Features

Extensive support for PPPoE, NAT/NPAT, DHCP, DNS and DNS Relay.

### NetLink Plug-And-Play

Just plug them in and the link comes up in seconds. With G.Handshake, the CPE unit auto-bauds to rate set at CO.

### Front Panel Status Indicators

Front Panel LED's provide users with quick feedback on unit operation.

Patton's Model 3087 ipRocketLink bridge/router redefines access and sets the new standard for customer premise equipment. Based on European Telecommunications Standardization Institute (ETSI) and International Telecommunications Union (ITU) G.SHDSL G.991.2 standard, the Patton 3087 ipRocketLink enables 2.3 Mbps speeds at nx64 (n=1..36) over a single pair of wires while combining standards based transmission with concurrent synchronous-serial, Ethernet, and high-speed IP routing/bridging...all in one compact package.

With Patton's FlexIP™ architecture, the Model 3087 offers V.35, X.21, or T1/E1 Sync-Serial interfaces and a 10/100 Ethernet port. Integrated software selectable DCE/DTE support eliminates messy crossover cables. The Ethernet port enables access to any IP network via ATM, PPP, or Frame Relay. Both interfaces can be simultaneously selected with user-defined bandwidth for each port.

Combining ease-of-use with a full suite of LAN/WAN routing features, the Model 3087 provides selectable bridging or routing functionality along with advanced IP features such as NAT/NAPT, DNS relay, and DHCP server and relay. Numerous firewall features including the ability to filter by IP address and by IP port, support for Intrusion Detection (IDS), and the capability of "blacklisting" offending traffic flows likewise come standard with the unit.

Configurable FR/PPP/IP WAN protocols allow a wide range of choices when connecting equipment via common WAN services. The IPLink supports the latest version of PPP/BCP, transparently negotiating the passing of VLAN traffic.

For more information, visit us at [www.patton.com](http://www.patton.com).



Special Rates Available  
Call for Details

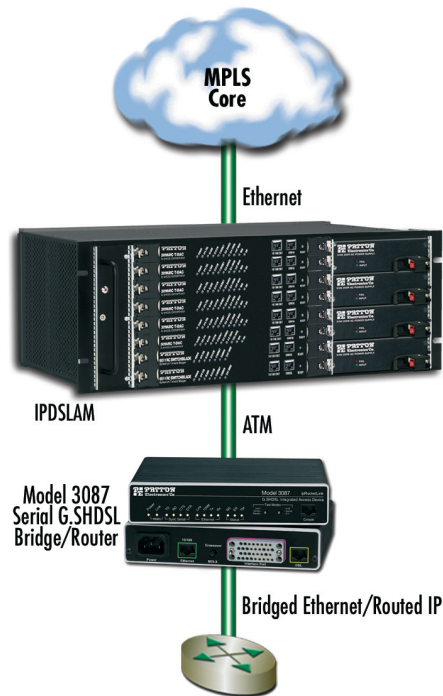
- Routes simultaneously between Frame Relay, ATM, and Ethernet ports
- Internal universal (90–260) AC or 48 VDC power
- Built-in Ethernet crossover switch for easy connections



## Typical Application

The Model 3087 ipRocketLink Bridge/Router excels in manageability even in point-to-point configurations.

- ✓ NetLink Plug-and-play automatically configures a remote unit based on parameters stored in the local unit.
- ✓ Password protected console lets an operator log into a unit to manage and configure it locally.
- ✓ With SNMP any MIB browser can manage and configure the unit.
- ✓ ipRocketLink devices are software upgradeable from the console port.
- ✓ Use a simple HTTP browser for configuration.



## Specifications\*

### DSL

G.991.2 ITU G.SHDSL Annex A & Annex B, G.994.1 G.hs. nx64 data rates over 2-wire full-duplex to 2.3 Mbps, symmetrical, TC-PAM encoding. Distances: 32,000 ft (9.8 km) at 192 kbps to 18,000 ft (5.6 km) at 2.312 Mbps.

### DSL Connection

Shielded RJ-11F isolation per IEC 950

### Ethernet Connection

10/100Base-T, auto-sensing, full/half-duplex operation, built-in MDI-X

### Serial Interface

V.35—M/34F, X.21—DB15F (DCE/DTE), T1—RJ48C, E1—RJ48C, and dual BNC

### 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 & bridged encapsulation

RFC 2684 & 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 ILM1 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 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.

Frame Relay with ANSI and CCITT LMI support including user, network, and both configuration. PPP/IPCP and PPP/BCP.

### 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

12 LEDs: DSL Link; Sync Serial: TD, RD, CTS, DTR; LAN: TX, RX, 100M Link; Status: NS, ER, TM.

### Power Supply

Internal universal 90–260 VAC input or 48 VDC input. Optional external power available.

### Compliance

FCC Part 15A, CE Mark, EMC Directive 89/336/EEC, Low-Voltage Directive 73/23/EEC, EN60950, EN55022 (CISPR 22)

### Environment

Temperature: 32–122°F (0–50°C); Humidity: 5–90%, non-condensing

### Dimensions

7.3 x 6.6 x 1.62 inch (185 x 168 x 41mm).

\* Specifications subject to change without notice.

07M3087-DS4

Patton is a registered trademark of Patton Electronics Company in the United States and other countries.

PE-Inalp Networks Private Ltd

An Associate of

**PATTON**<sup>®</sup>  
Electronics Co., USA

Old No. 14 and New No.6,  
Brahadambal Road,  
Nungambakkam High Road  
Chennai: 600 034, India  
Phone **+91 44 45490395/6/7**  
Fax **+91 44 4549.0394**  
Email **sales@patton.co.in**  
Web **www.patton.co.in**

Patton-Inalp Networks AG

**PATTON**  
inalp networks

Meriedweg 7  
CH-3172 Niederwangen  
Switzerland  
Phone **+41 (31) 985 25 25**  
Fax **+41 (31) 985 25 26**  
E-mail **sales@inalp.com**  
Web **www.inalp.com**

Patton Electronics Co.

**PE PATTON**  
Electronics Co.

7622 Rickenbacker Drive  
Gaithersburg, Maryland 20879  
USA  
Phone **+1 301 975 1000**  
Fax **+1 301 869 9293**  
E-mail **sales@patton.com**  
Web **www.patton.com**