G.SHDSL Integrated Access Device

Model 3086 ipRocketLink IAD

Deploy multiple managed services with the Model 3086 ipRocketLink over 2-wire standards-based G.SHDSL transmission.

nx64 Speeds to 2.3/4.6 Mbps

User-selectable data rates for Sync-Serial, WAN, or Ethernet/IP ports. Use as a standalone or with the ForeFront Access system

Choice of V.35, X.21, or T1/E1

Get the right interface with the right connector and avoid messy adapter or crossover cables

Built-in Ethernet/IP Router Standard

With Patton's FlexIP architecture, split the bandwidth and use both interfaces at the same time

Get ATM, PPP, and Frame Relay

Versatile interface options allow for simple deployment into any network environment

Interoperable with Third-Party DSLAMs

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

LEDs and Full V.52/V.54 Diagnostics

Easy-to-access toggle switches let you test the link with built-in test modes. LEDs provide clear status at-a-glance

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 3086 from anywhere in the world.

The Patton Model 3086 ipRocketLink IAD 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 3086 ipRocketLink enables 2.3/4.6 Mbps speeds at nx64 (n=1..36/72) over a single pair of wires while combining standards-based transmission with Synchronous-Serial, Ethernet, and high speed IP routing…all in one compact package.

With Patton's FlexIP™ architecture, the Model 3086 offers V.35, X.21, or T1/E1 Sync-Serial interfaces *and* 10/100 Ethernet ports. 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.

The 3086 boasts easy installation with DIP switch, Telnet, and WWW/SNMP management. It provides bridging and routing functionality, along with advanced IP features like NAT and Firewall, and optional IPSec-based VPN. As part of Patton's family of ipDSL products, the Model 3086 offers a complete, managed, end-to-end system when used with Patton's central site access concentrators.

Visit www.patton.com for more information.

- Simultaneous use of serial and Ethernet interfaces

- Internal universal (90–260) AC or 48V DC power

- 13 LEDs show status at-a-glance

- Configure with console, Web, Telnet, or DIP-switches

- Built-in Ethernet MDI-X for easy connections to hubs and PCs

Model 3086 ipRocketLink IAD

Why use our Model 3086?

The Patton Model 3086 ipRocketLink IAD delivers all the advanced features needed for secure, reliable, and high speed data connections. By combining serial access with Ethernet/IP, the 3086 IAD makes next-generation connectivity simple, easy, and cost effective.

Available with standard WAN and serial interface such as V.35, X.21, T1, and E1, the 3086 is a potent NTU for any network connection. In addition, the Model 3086 offers a standard 10/100 full-duplex Ethernet/IP interface with capabilities ready for any routing task. NAT, DHCP, Firewall, IDS, and Filtering give you complete control over network services and security. For ultimate flexibility the 3086 allows simultaneous operation of the serial and Ethernet ports.

The 3086 IAD can be used back-to-back or with the Patton ForeFront Access Infrastructure System. Additionally, the 3086 IAD can be used with any other G.SHDSL TDM or Packet system.

3086 Competitive Positioning

		Patton 3086	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
	V.35/X.21/T1/E1	**YES**	NO	NO
Ease of Use	Status LEDS	**12**	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 & 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.

Frame Relay (Keyed feature)
Frame Relay over DSL. Encapsulates IP traffic from Ethernet port into Frame Relay according to RFC-1490.

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 leases and MAC/IP pairings.

Protocol (continued)
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
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).