

# **G.SHDSL Router & DSLAM**

## Patton 3224 G.SHDSL IpDSLAM

The Model 3224 G.SHDSL IpDSLAM combines 24 G.SHDSL ports, subscriber traffic management, and a powerful edge router for a complete broadband IP/Internet access platform.

#### **NAT & NAPT**

Avoid address depletion

#### DiffServ/ToS

QoS for all traffic flows

## IP address & port filtering

Create your own firewall

## **DNS** caching

Faster address lookups

### **DHCP**

Manage IP addressing for user LANs

#### PPTP & PPPoE

Create Layer 2 tunnels

#### **IPsec**

Create Layer 3 VPNs

#### **SNTP**

Synchronize edge devices to time source

## RIP, OSPF & BGP

Routing flexibility

## **RADIUS Accounting & Authentication**

Authenticate & track users with standard tools

## **Expansion modules**

Adapt IpDSLAM to your network needs

## 24 G.SHDSL Ports

Symmetric service to 4.6 Mbps

# Redundant, removable power supplies

Non-stop operation

atton's Model 3224 IpDSLAM is a costeffective solution for dedicated Internet service delivery in situations where the business case does not support the separate deployment of high-density, chassis based solutions, service creation platforms, and routers. With support for 24 ports of up to 4.6 Mbps symmetric G.SHDSL links and numerous uplink options, the 3224's flexibility is unsurpassed.

The 3224 IpDSLAM routes IP traffic using numerous standard routing protocols while maintaining strict quality of service (QoS) by prioritizing operator configured traffic flows using standard ToS bits. VPN applications can easily be deployed with L2TP or PPTP-based tunneling of IP traffic. Assigning traffic priorities to VPNs guarantees QoS.

Extensive IP address and port filtering makes the 3224 an excellent multi-user firewall and service creation platform. Either customize firewall services to the needs of the individual users or provide a standard global firewall service. Use the filters to segregate the traffic and wholesale service to other providers without losing control of your network or the level of service that is offered.

Well thought-out solutions to common networking issues include support for NAT & NAPT for avoiding IPv4 address depletion, DHCP for value added services to SOHOs, DNS caching for quick address look-ups, SNTP for time server synchronization of edge devices.

and RADIUS accounting and authentication for validation, verification and accounting of user sessions.

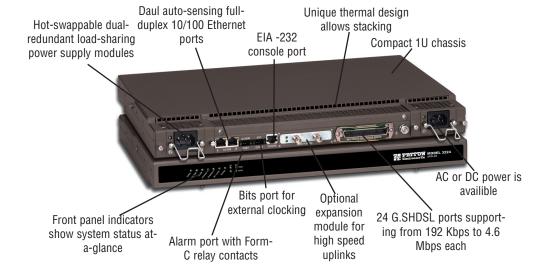


Special Rates Available Call for Details

Optional up-link ports provide the flexibility of select-

ing the up-stream interface that is right for your network deployment needs. Co-locate with a DLC or use it in a building's wiring closet. Redundant, load sharing, removable power supplies provide maximum power protection. External BITS and alarm ports facilitate the deployment of the 3224 IpDSLAM in traditional central office environments.

Whether you are an ISP, ASP, or Carrier, the 3224 will improve the quality and variety of your service offering while reducing your investment in value added service platforms. For more information, visit us at <a href="https://www.patton.com">www.patton.com</a>.





## Operating Features

The Model 3224 IpDSLAM comes with the redundancy and ease of management required by service providers for high quality of service. Included with the purchase of every unit is free initial configuration support, one year of free technical services, one year warranty, and free software upgrades.

#### **Features included:**

- ✓ A 1U high base unit with one expansion slot
- √ 24 G.SHDSL ports on an RJ-21X connector
- √ Two 10/100Base-T Ethernet ports
- ✓ Standard removable dual-redundant, loadsharing power supplies (AC or DC)
- ✓ Alarm port; BITS clock port; console port

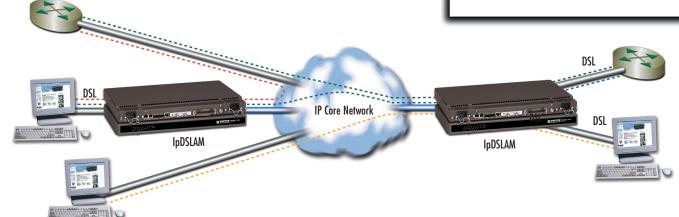
How easy is it to install our DSLAM? As easy as 1-2-3...

- 1. Plug in the power
- 2. Provision the port
- 3. Provide end-to-end IP

| Features                    | Benefits                        |
|-----------------------------|---------------------------------|
| Redundant, Removable PS     | Non-Stop Operation              |
| BITS & Alarm ports          | Deploy in CO environments       |
| 24 G.SHDSL Ports            | Symmetric DSL to 4.6 Mbps       |
| Two 10/100 Ethernet Ports   | Redundant Up-Link               |
| Expansion Modules           | Customize Network Up-Link       |
| L2TP                        | Create Layer 2 VPNs             |
| IP-within-IP                | Create Layer 3 VPNs             |
| RIP, OSPF & BGP             | Routing flexibility             |
| RADIUS Accounting &         | Authenticate & track users with |
| Authentication              | existing tools                  |
| NAT & NAPT                  | Masquerading                    |
| IP address & port filtering | Create firewalls & manage QoS   |
| DNS Caching                 | Faster address lookups          |
| DHCP                        | Manage user IP addresses        |
| SNTP                        | Synchronize to time source      |

## Application

Use the Model 3224 ipDSLAM to create Layer 2 VPNs with L2TP or Layer 3 VPNs with IP-within-IP between IPDSLAMs or other third-party equipment.



## **Specifications**

#### **DSL Ports**

24 G.SHDSL or 2B1Q ports on an RJ-21X 50-pin connector, each supporting data rates of nx64 (192 kbps-4.6 Mbps)

#### **Ethernet Ports**

Dual 10/100BaseT (RJ-45 connector); auto-negotiating; half or full duplex operation

### WAN clocking

Internal, Network Receive Recover (from expansion port), External BITS via Form-C relay contacts

#### **Front Panel Indicators**

LEDs for power, CPU, system, Ethernet, External clock, test mode, DSL, and Uplink Egress module

## **Power Supplies**

Hot swap, dual-redundant AC or DC; AC power: 115 or 230 VAC (50/60 Hz); DC power: -36 to -72 VDC6 to -72 VDC

## **Management Service**

HTTP, SNMP, Telnet Server, RS-232 Console Port, SYSLOG Client, Software upgrade via FTP or TFTP

#### **Alarm Reporting**

Configurable alarms; Remote SNMP Traps; Front Panel LEDs; Form-C relay contacts

## Compliance

Safety: UL/CSA per UL1950 (METS) Canadian cMET and CS-03. EMC Directive 89/336/EEC, Low-Voltage Directive 73/23/EEC (EN60950), FCC Part 15, CE Mark, CTR12, CTR13, FCC Part 68

#### **Environment**

Operating temperature: 48VDC model 0 to 50°C (32 to 122 °F); AC model 0 to 40°C (32 to 104 °F) Humidity: 5–90% non-condensing

## Dimensions

48.25 W x 32.00 D x 4.44 H cm (19.00 W x 12.60 D x 1.75 H inches)— 1U by 19 in. wide

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 $<sup>^{\</sup>star}$  Specifications subject to change without notice.