Enterprise Session Border Router

SmartNode™ 5200

The SmartNode™ 5200 is the perfect Session Border Router for Enterprises requiring universal SIP trunking services for up to 32 SIP sessions.

IP Routing
RIP v1/v2, VRRP, Policy Based Routing, Loopback Interface

VPN Tunnels
Standard IPsec with AH and ESP ensures maximum protection when traversing unsecured networks.

Strong Encryption
DES, 3DES, and AES offer standards-based encryption algorithms from 56 to 256 bits.

QoS/CoS Profiles
Configurable burst tolerance, bandwidth guarantees plus reduce per flow traffic jitter as required by the application

Configurable Security Profiles
Built-in IP address and IP port filtering, ACLs and DoS attack detection creates a comprehensive security environment.

Enhanced IP services
DNS resolver and relay, NAT/NAPT, dynamic DNS, and DHCP server, ease integration.

10/100 Ethernet
One 10/100 WAN Ethernet port and four 10/100 LAN Ethernet ports

Universal SIP trunking service lets businesses with PBXs use VoIP and other real-time media communications over an end-to-end IP connection. The SmartNode 5200 connects the Enterprise's LAN to an Internet telephony service provider (ITSP), creating a single conduit for multimedia components including voice, video and data.

The SN5200 includes SIP-aware NAT and access controlled lists (ACLs) for maintaining secure communications when SIP traffic crosses the Enterprise edge.

The SN5200 enables IP-based data routing for enterprises in need of a single integrated access device to support their IP data and voice connectivity needs. Routing capabilities include RIP v1/v2, virtual router redundancy protocol (VRRP), Loopback interfaces as well as advanced techniques like policy based routing (PBR).

SN5200 provides advanced features like NAT/ NAPT in addition to ACLs and PBR for security and QoS that keep malicious traffic from effecting bandwidth requirements of PBR-marked essential traffic. Downstream QoS ensures important voice and fax calls don't get bogged down by such resource hungry lower priority TCP traffic as FTP downloads.

SmartWare™ is equipped with a link status based routing function. This function, together with SIP registrar, enables survivable telephony services to be deployed between intra-office SIP clients in case there is a failure at the SIP provider. Combined with a PSTN fall-back scheme, the SN5200 is capable of routing calls over PSTN in the event of a SIP trunking provider problem.

Visit www.patton.com for more information.

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Application Diagram

The SN5200 enables Universal SIP Trunking and provides a single Integrated Access Device with features like IP Routing, Redundancy, Security and a SIP registrar for survivability. The Enterprise can use a single conduit for both its voice and data traffic thus making the most cost efficient use of its resources. By using two SN5200 with VRRP enabled an Enterprise could connect to two ITSP and provide for failover incase the primary SIP provider trunk has a problem.
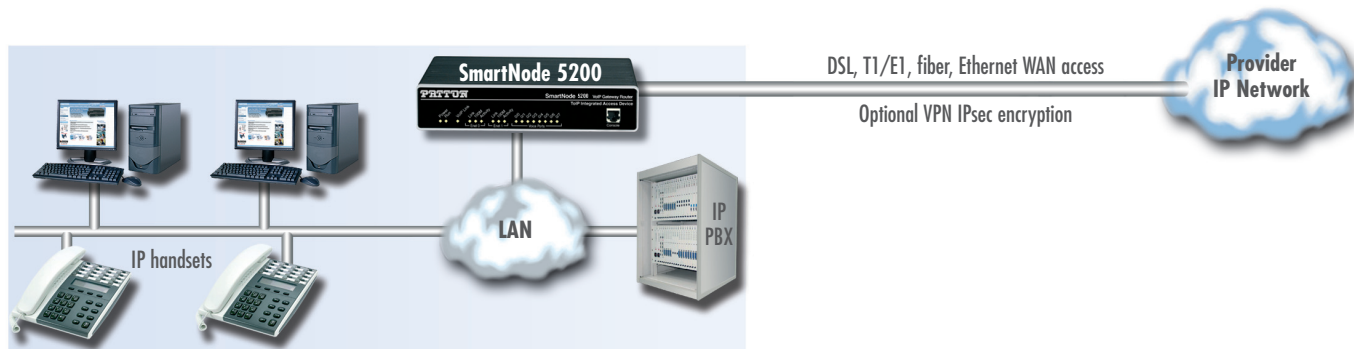
Specifications*

Capacity
32 Simultaneous SIP Sessions

Data Services
1 10/100BaseT WAN port, 4 10/100 LAN Ethernet Ports • Complete IP Access Router • DHCP Client & server • Packet Fragmentation • Static Firewall • NAT, NAPT RFC 1631 Access Control Lists • DMZ Port

Quality of Service
Voice priority • DownStreamQoS™ • Traffic management, shaping and policing • IEEE 802.1p, TOS, DiffServ labeling • IEEE 802.1Q, VLAN tag

insertion/deletion (4096 VLAN IDs, multiple VLAN support

Voice Signaling
SIPv2 • SIP call transfer, redirect • DTMF in-band & out-of-band • All tones programmable (dial, ringing, busy)

Management
Web/HTTP, CLI with local console and remote Telnet access • TFTP configuration & firmware loading • SNMP MIB II and product MIB • Secure autoprovisioning for both firmware and unit/subscriber configuration • Built-in diagnostic tools (trace, debug, call generator)

Call Switching and Services
Regular expression based call routing and number manipulation • Number blocking • Short-dialing • Digit collection, distribution and hunt groups • transparent line extension

Voice Processing
CODEC G.711 a-law/mu-law, G.723, G.729ab • G.726, G.727. T.38 fax relay • G.711 transparent fax and bypass

System
CPU Motorola MPC875 @ 133 MHz • Memory 32MB SDRAM/8MB Flash

Dimensions
7.3W x 1.6H x 6.1D in.
(18.5H x 4.1W x 15.5D cm)

Weight
24.4 oz./400g

Power
100–240 VAC (50/60 Hz)

Temperature
32–104°F (0–40°C)

Humidity
5–80% (non condensing)

Ordering Info

SN5200/32B/EUI: SmartNode Enterprise Session Border Router, 1x10;100Base-TX WAN, Integrated 4-port 10/100Base-TX LAN Switch; 32 SIP-to-SIP Calls without Transcoding, External UI Power

* Specifications subject to change without notice.