

VoIP



# SmartNode™ 5200

## Enterprise Session Border Router

*Providing up to 32 SIP Sessions, the SmartNode™ 5200 bridges the wide range of IP PBX products to their service providers ensuring security and a high level of efficiency in the VoIP network.*

### Up to 32 SIP Sessions

*Hardware ready for 4 SIP Sessions and software upgradeable to 32 SIP Sessions*

### IP Routing

*RIP v1/v2, VRRP, Policy Based Routing, Loopback/Virtual Interface, NAPT-capable edge router*

### QoS and Security

*Deliver secure, toll-quality voice communications with Patton's DownStreamQoS™ with adaptive traffic management and shaping—plus secure voice-over-VPN with AES/DES strong encryption and extended ACL capabilities.*

### 10/100 Ethernet

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

### Why SmartNode™?

- Patton Quality
- Made in the USA
- Unrivalled Customer Support
- FREE Support and Upgrades

The SmartNode 5200 Enterprise Session Border Router bridges the wide range of IP PBX products to their service providers ensuring security and a high level of efficiency in the VoIP network. Connecting the Enterprise's LAN to an Internet Telephony Service Provider (ITSP), the SN5200 creates a single conduit for multimedia components including voice, video and data.

Through the SIP Back-to-Back User Agent (B2BUA), the SmartNode 5200 provides a common interface into the service provider network providing resolution of any differences between the SIP from the IP PBX and the service provider softswitch. The B2BUA also isolates your network from the outside world to hide your private addresses and network topology for security purposes.

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

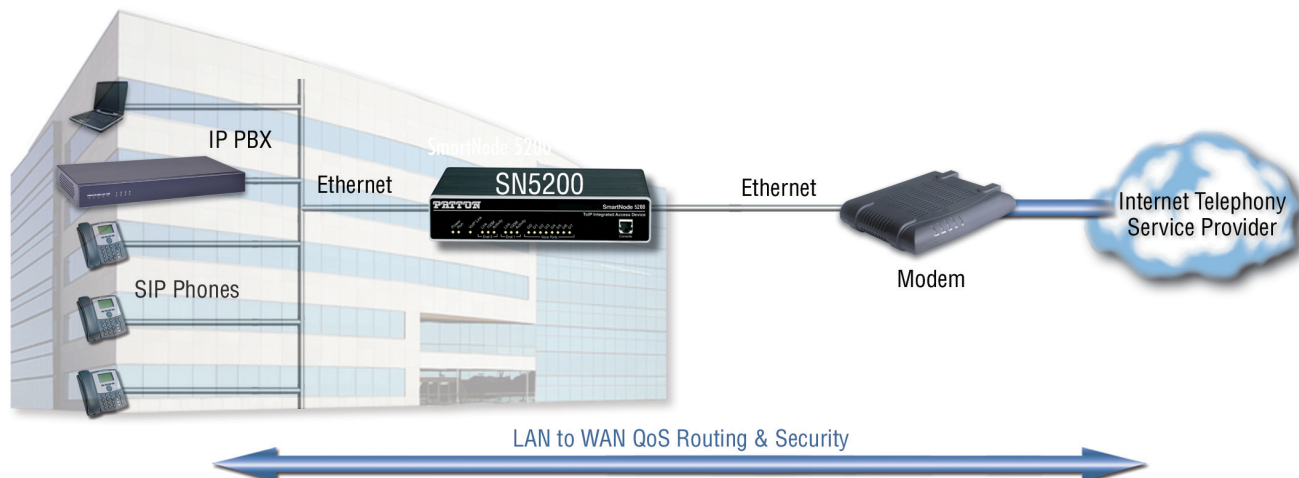
In addition, routing capabilities include RIP v1/v2, virtual router redundancy protocol (VRRP), loopback interfaces as well as advanced techniques like policy based routing (PBR). Furthermore, QoS keeps malicious traffic from effecting bandwidth requirements of PBR-marked essential traffic and Downstream QoS ensures important voice and fax calls do not get bogged down by such resource hungry lower priority TCP traffic as FTP downloads.

For survivability, the SN5200 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.

For more information on Patton's SmartNode products, visit [www.patton.com/smartnode](http://www.patton.com/smartnode).



## Application Diagram



## 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, NAT 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

up to 90% (non condensing)

## Ordering Info

### SmartNode 5200 Enterprise Session Border Router

**SN5200/4B/EUI:** ESBR, 4 SIP Sessions (SIP back-to-back calls), upgradeable to max 32 SIP Sessions (see SNSW-4B), 5x Ethernet, no VoIP Channels, External UI Power

**SN5200/32B/UI:** ESBR, 32 SIP Sessions (SIP back-to-back calls), not upgradeable, 5x Ethernet, no VoIP Channels, External UI Power

**SN5221/4BD/EUI:** ESBR with X.21 WAN, 4 SIP Sessions (SIP back-to-back calls), upgradeable to max 32 SIP Sessions (see SNSW-4B), 2x Ethernet, No VoIP Channels, External UI Power

### Options and Accessories

**SNSW-4B:** SmartNode license for 4 additional SIP Sessions (SIP back-to-back call using 8 SIP legs)

\* Specifications subject to change without notice.



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