SmartNode™ Enterprise Session Border Controller
Model 5300

SUPPORTS IPv6

Providing up to 256 SIP Sessions, the SN5300 bridges a wide range of IP PBX products to their service providers ensuring VoIP security using SIP TLS and provides a high level of voice quality using the built-in QoS engine.

IP Routing
Policy Based Routing, Protocol Based Routing, Packet Length Routing, Packet Filtering

QoS and Security
Deliver secure, toll-quality voice communications with Patton's UpStreamQoS with adaptive traffic management and shaping as well as policy based routing and extended ACL capabilities.

Ethernet
4 port Fast Ethernet Base-T 10/100 (routable and switchable)

WAN Access
Supported for G.SHDSL EFM/ATM 4-wire and 8-wire interfaces

Proprietary Software
Utilizes proprietary Trinity™ Software for added security

Why SmartNode?
- *Patton Quality*
- *Made in the USA*
- *Unrivaled Customer Support*
- *FREE Tech Support and Upgrades*

Patton's SmartNode 5300 eSBC delivers the features you need for advanced multiservice voice and data network applications. It combines high quality voice-over-IP with powerful quality of service routing functions to build professional and reliable VoIP and data networks.

The SN5300 enables Universal SIP Trunking and provides a single Integrated Access Device with features like IP Routing, VoIP and IP Security and a SIP registrar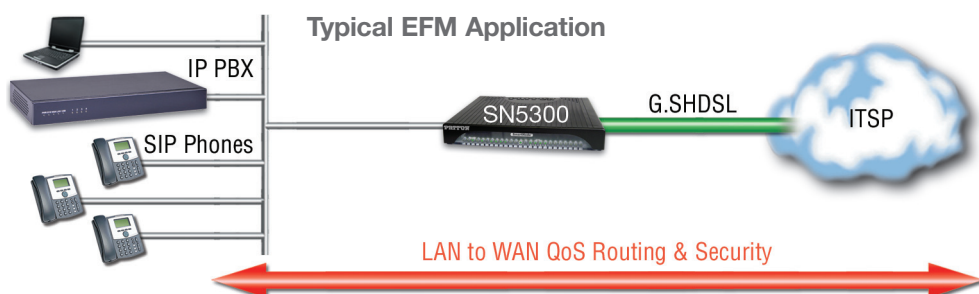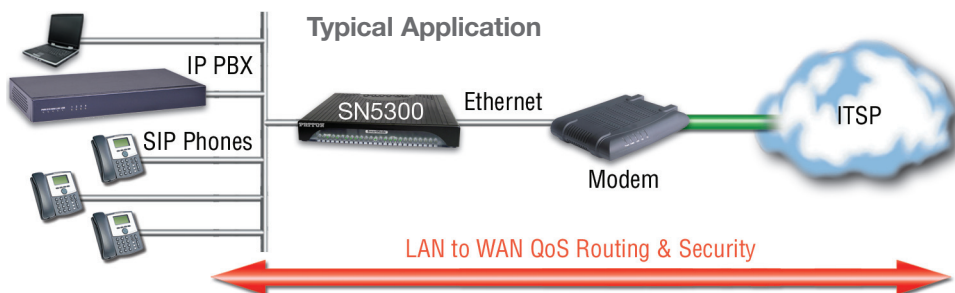 for survivability. The SN5300 connects to the Enterprise's LAN and to an Internet telephony service provider (ITSP), creating a single conduit for multimedia components including voice, video and data. Whether it is a new installation or existing deployment, this device will aid you in troubleshooting, logging, and security while increasing the flexibility of your network.

Typical and EFM Applications

The SN5300 enables protocol conversion between two networks to solve interop problems for devices using SIP TCP signaling only. The SmartNode is able to convert SIP TCP or SIP TLS signaling into SIP UDP signaling.

Using the built-in QoS engine, the SmartNode ensures that voice traffic gets top priority resulting in good voice quality across the SIP Trunk over a public network.

Typical Application

IP PBX
SN5300 Ethernet
SIP Phones
Modem
ITSP

LAN to WAN QoS Routing & Security

Typical EFM Application

IP PBX
SN5300 G.SHDSL
SIP Phones
ITSP

LAN to WAN QoS Routing & Security

PATTON®
let's Connect!™

Specifications*

G.SHDSL
- Support ITU-T G991.2/G.994.1 standards
- Support ITU-T G.998.1 (G.bond)
- TC-PAM line modulation 16/32 and 64/128
- CO or CE Mode
- OAM IEEE 802.3 chapter 57 compliant
- IEEE 802.3 2Base-TL (aka 802.3ah) compliant
- Rate negotiating/manually rate adaptation configuration
- 2–8 wire mode auto detect
- Data rate selections: Up to Nx239 (5.7 Mbps) per pair
- Support bonding based on EFM
- Line interface: up to 4 pairs on a single RJ45 connector

Physical Features
- 4 port Fast Ethernet Base-T 10/100 (routable & switch-able)
- 1 G.SHDSL port for EFM transmission (factory options for 2 or 4 pair)
- 1 RS-232 Console port

- 1 USB port

VoIP Features
- SIPv2/SIPv2 over TLS
- Inbound SIP Registrar
- B2BUA Abilities

IP Addressing & Routing
- NAT/NAPT
- DHCP Client/Server/Relay
- DNS Relay/Server/Client
- SNTP Client
- IPv4/IPv6
- Full Policy Based Routing (PBR) Support
- PPPoE

Security
- Stateful Firewall
- Extended ACLs
- Radius Authentication
- SSH/TLS

Switching and Quality of Service
- IEEE 802.1D
- 802.1Q/802.1P
- Link Scheduling

Capacity
4 simultaneous channels, upgradeable up to 250

Voice Processing
- Codec G.711 a-law/mu-law, G.723, G.729ab,
- G.726, G.727. T.38 fax relay (9.6 k, 14.4 k)
- G.711 transparent fax and bypass

IP Routing
- IP access router
- DHCP Client & Server
- RIPv2 (Roadmap)
- BGP (Roadmap)
- VRRP (Roadmap)
- Packet fragmentation
- Firewall
- NAT/NAPT RFC 1631
- Access Control Lists
- DMZ port
- IPsec VPN (Roadmap)

Management Features
- SNMP v1, v2, v3
- Telnet/SSH/RS-232
- HTTP/HTTPS/Provisioning
- SYSLOG
- TACACS +
- TFTP, HTTP and HTTPS File Management

Quality of Service
- Voice priority
- DownStreamQoS™ (Roadmap)
- UpStreamQoS™
- Traffic management, shaping and policing
- IEEE 802.1p, TOS, DiffServ labeling
- IEEE 802.1Q, VLAN tag insertion/deletion (4096 VLAN IDs, multiple VLAN support)

Temperature
Temp: 32–104°F (0–40°C)

Humidity
Humidity: Up to 90% (non con-densing)

Physical and Power
- 7.3 x 6.6 x 1.62 inch
- 181g (0.4 lbs)
- 0 to 50° C
- External PSU AC: 100 to 240 VAC

Compliance
- FCC Part 15A
- CE Mark

Ordering Info

Obtain ordering info for this product by using the QR code at right or by contacting:
- web: **http://www.patton.com/products/product_detail.asp?id=502&tab=Ordering**
- email: **sales@patton.com**
- tel: **+1 301.975.1000**

Let's Connect!™

07MSN5300-DS4

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* Specifications subject to change without notice.