Enterprise Session Border Controller
Model 5551
with BRI & FXS Ports

2 BRI/2 FXS or 4 BRI/4 FXS ports and 4–8 simultaneous G.722/G.711 or T.38 calls. The SN5551 is the best way to connect ISDN networks or ISDN terminal equipment, and legacy analog equipment into an All-IP environment. With built-in security features such as HTTPS provisioning, Stateful Firewall, and SIP-TLS / SRTP it provides business-class VoIP for demanding ISDN users.

BRI & FXS interfaces
2 or 4 ISDN BRI S0/T0 and 2 or 4 FXS ports. 4 -8 G.722/G.711 or 4 T.38 calls simultaneously. Incudes SIP TLS/SRTP.

Advanced Local Call Switching
Virtual interfaces and routing tables provide industry leading flexibility in call handling programming. Local call switching, soft fallback to alternative routes. Simultaneously connects to multiple SIP services/IP PBXs.

Network Monitoring
Embedded Packet Smart Agent for network monitoring and assessment 24x7**.

Auto-Provisioning
Secure zero-touch provisioning (HTTPS) for ease of use.

Proprietary OS
Utilizes proprietary Trinity™ software for enhanced security.

Ease of Use
Patton`s Web Wizard is a time saving tool for a fast and reliable installation.

Full VoIP protocol support
SIPv2, SIPv2 over TLS, ISDN, DSS1, QSIG**, T.38, G.722 HD voice, RTP Security with SRTP, fax and modem bypass, DTMF relay.

Outstanding Interoperability
Interoperable for voice and T.38 fax with leading SIP service providers, softswitch vendors, and major IP-PBX manufacturers.

Why SmartNode?
- *Patton quality*
- *Swiss engineered; made in USA*
- *Unrivaled customer support*
- *FREE software upgrades*

The SmartNode SN5551 Enterprise Session Border Controller bridges a wide range of IP-PBX products to their SIP Trunk service providers. With its built-in security features such as SIP TLS, SRTP, Stateful Firewall and secure provisioning, it protects the LAN networks from fraud strikes out of the Internet.

The combo configuration of 2 BRI/2 FXS or 4 BRI/4 FXS, fits the requirements of small and medium sized enterprises requiring a solution to enable legacy equipment for VoIP networks.
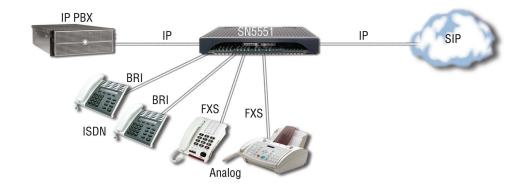
The unique WebWizard enables easy and hassle-free installations, and lets technical people create their own Web interface.

With the separate config domain feature, the SN5551 will be the service demarcation point for SIP trunk service providers, so the local administrator only has to modify configuration settings facing the LAN IP-PBX.

Visit www.patton.com for more information.

Typical Application

Whether used as an enterprise session border controller or as a VoIP gateway/router, the SmartNode 5551 provides excellent VoIP, IP QoS and security features for seam-less network integration. With BRI and analog ports, the SN5551 converts modem and fax signals to VoIP, and solves problems with integrating PoS, metering systems, elevator phones, etc. to an All-IP environment. For business class IP telephony at the tip of your fingers, the SmartNode SN5551 is more than just talk!

PATTON
Let's Connect!™

SmartNode™ Model 5551 Multi-port BRI/FXS eSBC

SN5551/4BIS4JS8VHP/EUI

SN5551/2BIS2JS4VHP/EUI

Specifications

Call Capacity
4–8 simultaneous G.722 / G.711or T.38 fax calls

Voice Signaling
- SIPv2 & SIPv2 over TLS
- SIP call transfer, redirect
- Overlap or en-bloc dialing
- DTMF in-band, out-of-band
- Configurable tones

Call Routing & Services
- Regular expression number matching
- Regular expression number manipulation
- Least Cost Routing
- Number blocking
- Short-Dialing
- Digit collection
- Distribution-Groups and Hunt-Groups

FXS Connectivity
- 2 or 4 FXS ports, RJ-11/12
- 2-wire Loopstart
- Long Reach FXS—10 km @ 3REN load
- EuroPOTS (ETSI EG201188)
- Programmable AC impedance, feeding, ring and on-hook voltage
- Caller-ID FSK and ITU V.23/Bell 202 generation
- Secondary Surge protection (optional)

ISDN
- 2 or 4 BRI S0 ports, RJ-45
- NT/TE configurable per port

- Built-in line power on each port (total 4W)
- DSS1, Q.921, Q.931. NTT-64
- HP** High Precision Clock Stratum 3 CO
- Point-point and point-multi-point
- Lifeline Bypass Relay
- Optional QSIG support**

Voice Processing
- G.722
- G.711m/A-law
- G.723.1 (6.4 kbps)
- G.729, 729a, 729ab (8 kbps)
- G.726 (16, 24, 32, 40 kbps)
- G.168-2004 echo cancellation (128 ms)
- 4–8 simultaneous low-bandwidth voice or T.38 fax calls
- 4–8 HD calls with SRTP
- Up to 256 SIP to SIP calls***
- 2–4 SIP transcoded calls**
- Transparent ISDN data (RFC 4040)
- Silence suppression and comfort noise
- Adaptive and configurable dejitter buffer
- Configurable RTP packet length

Quality of Service
- PacketSmart™ Network Assessment & Monitoring**
- Voice priority, DownStreamQoS™
- Traffic Management, shaping policing

- IEEE 802.1p, IEEE 802.1Q, 4096 VLANs (Tag insertion/deletion), TOS, DiffServ Labeling

Connectivity
- Two 10/100/1000Base-T Ethernet ports
- 1 USB port
- Auto-MDIX
- DHCP Client
- PPPoE Client (multi-session)
- IP Multi-Netting, VLAN, Secondary IP
- IPv4, Basic IPv6
- ICMP
- Dynamic and static NAT and NAPT
- ACL, Stateful Firewall
- DNS, DynDNS
- DHCP Server
- SNTP Client

Management
- Web/HTTPs, CLI with Telnet and SSH access
- WebWizard
- Fully Documented CLI
- TFTP, HTTP, HTTPS configuration up- and download
- TFTP, HTTP, HTTPS firmware upgrade
- SNMPv3 agent
- Separate config domain
- MIB II and private MIB
- Built-in diagnostic tools
- Secure Auto-Provisioning with built in root CA

Power Consumption
< 10W

Packaging
Plastic chassis

Dimensions
Plastic chassis 2BIS/2FXS:
8.2W x 1.3H x 6.5D in.
(20.8W x 3.4H x 16.5D cm)

Metal enclosure 4BIS/4FXS
(with rack mount option):
11W x 1.5H x 6.1D in
(28 W x 3.9 H x 15.7 D cm)

Weight
<450g (15.9 oz)/<600g (metal)

Environment
- Operating temperature: 32–104°F (0–40°C)
- Operating humidity: up to 90%, non-condensing

Compliance
- FCC Part 15 Class A (US EMC)
- CE per RTTE 99/5/EC (EMC and LVD)

Safety
- EN60950
- TBR-3 (ISDN BRI/S0)

Specifications subject to change without notice.

* Additional charges apply for licensed features.
** Depending on model.

*** Supports up to 256 SIP-to-SIP sessions under ideal conditions. Transcoding, debugging, and/or IP routing reduce processing capacity.