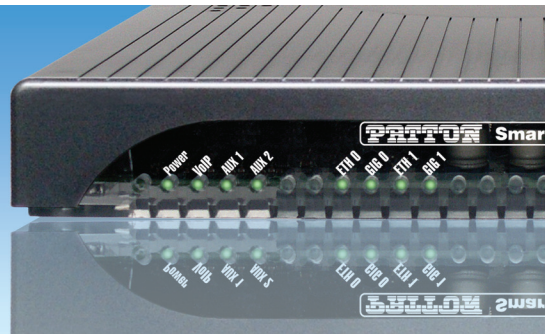# SmartNode™ Enterprise Session Border Router

Model 5570

SUPPORTS IPv6

The cost-effective SmartNode 5570 ESBR provides 1 or 2 PRI/E1/T1 ports with state-of-the-art security features. Transcoding for up to 16 SIP-to-SIP calls, high-definition G.722 codec, and QoS deliver optimum IP voice quality.

From 15 to 30 VoIP calls
1 or 2 ISDN E1/T1 PRI ports. Up to 30 simultaneous G.722, T.38 or G.711 ISDN to VoIP calls. Including SIP TLS and SRTP support for 30 calls. Or up to 16 SIP-to-SIP transcoded calls.

Full VoIP protocol support
SIPv2, SIPv2 over TLS, ISDN, DSS1, NI-2, QSIG**, T.38, G.722 HD voice, RTP Security with SRTP, fax and modem bypass, DTMF relay. SIP to SIP transcoding for up to 16 calls, non transcoding up to 512**** calls.

Full Telephony Features
SessionRouter allows flexible call routing and numbering plan adaptations, CLIP/CLIR, hold, transfer, 3-way conferencing (Roadmap) and much more.

Complete Access Routing
Two 10/100/1000 Ethernet ports with auto MDI-X. Ethernet Layer 2 switching and bridging. Access router with NAT, Policy Based Routing, Stateful Firewall, PPPoE, DHCP, DynDNS.

Management & Provisioning
Web-based management, WEB Wizard, SNMPv3, command line interface, auto-provisioning, separate config domain support, secure provisioning for configuration & software upgrades.

Outstanding Interoperability
Interoperable for voice and T.38 fax with leading SIP service providers, soft-switch vendors, and Asterisk™ IP-PBX.

Class A Compliance
All models with external (EUI) power supply.

High Precision Clock Option
DECT PBX interoperability and improved fax performance with Stratum 3 CO quality clock (HP)***.

The SmartNode SN5570 Enterprise Session Border Router 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 unique Web Wizard, enables an easy and hassle-free installation, and enables technical people to create their own Web interface.

With the separate config domain feature, the SN5570 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.

The SN5570 can also be used to do VoIP call transcoding for up to 16 calls. For instance converting G.722 codecs on the LAN side to G711 on the WAN side.

Like every SmartNode, the SN5570 Series models are state-of-the-art ESBRs that also provide complete policy-based IP routing.

The SmartNode SN5570 is the solution for service providers and network integrators looking for a VoIP product that matches up to ISDN standards in terms of features and quality and solves SIP to SIP interoperability issues.

Visit www.patton.com for more information.

Network Integration

Whether used as an Enterprise Session Border Router or as a VoIP gateway/router, the SmartNode 5570 provides excellent VoIP, IP QoS and security features for seamless network integration. All PRI ports are configurable to be TE or NT, you can thus connect your PSTN line as well as an ISDN PRI PBX. For business class IP telephony at the tip of your fingers, the SmartNode SN5570 is more than just talk!

PATTON®
let's Connect!™
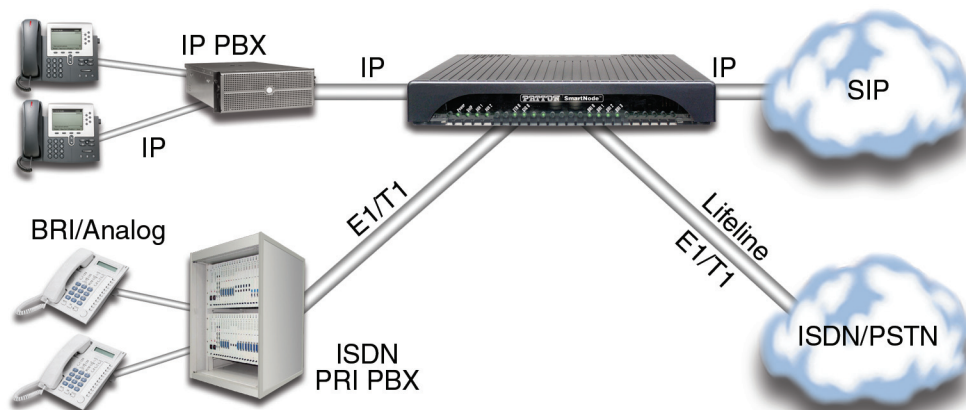
Specifications*

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 and Hunt- Groups

ISDN
1 or 2 E1/T1 PRI ports***, RJ-45 (NE/TE)
DSS1, Q.921, Q.931, NI-2
HP*** High Precision Clock Stratum 3 CO
Lifeline Bypass Relay***
Optional QSIG support**

Voice Processing
G.722

G.722.2 WB-AMR
G.711m/A-law
G.723.1 (6.4Kbps)
G.729, 729a, 729ab (8 kbps)
G.726 (16, 24, 32, 40 kbps)
iLBC at 13.33 & 15.2 kbps
G.168-2004 echo cancellation (128 ms)
30 simultaneous HD voice G722, G.711 or T.38 fax calls
30 calls with SRTP
Transparent ISDN data
16 SIP to SIP transcodec calls
Up to 512 SIP to SIP calls****
Silence suppression and comfort noise
Adaptive and configurable dejitter buffer
Configurable packet length

IP Quality of Service
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
Auto-MDIX
1 USB 2.0 host port
DHCP Client
DHCP Server
PPPoE Client (multi-session)
IP Multi-Netting, VLAN
IPv4
Basic IPv6
ICMP
Dynamic and static NAT and NAPT
ACL, Stateful Firewall
DNS, DynDNS
SNTP Client

Management
Web-based GUI
WEB Wizard
Fully Documented CLI
Telnet and HTTP access
TFTP, HTTP, HTTPS configuration up- and download
TFTP, HTTP, HTTPS firmware upgrade
SNMPv3 agent

Separate config domain (LAN side config and WAN side config) (MIB II and private MIB)
Built-in diagnostic tools
Secure Auto-Provisioning with built in root CA

Power & Packaging
Power Consumption < 10W
Desktop/Wallmount plastic chassis

Physical
Size: 20.8W x 3.4H x 16.5D cm
(8.2W x 1.3H x 6.5D in.)
Weight: <450g (15.9 oz)

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

Compliance
EMC: EN55022 and EN5502
Safety: EN 60950
CE
FCC Part 15 Class A; Part 68; CS-03

Ordering Info

SN5570/1E30V/EUI: SmartNode Enterprise Session Border Router, 1 PRI, 30 VoIP calls (non upgradeable); SIP transcoding; SIP Registrar; SIP TLS incl.; 2 Ethernet Ports; 1 USB port; External 100–240 power

SN5570/1E30VHP/EUI: SmartNode Enterprise Session Border Router, 1 PRI, HP, 30 VoIP calls (non upgradeable); SIP transcoding; SIP Registrar; SIP TLS incl.; 2 Ethernet Ports; 1 USB port; External 100–240 power

SN5570/2E30VR/EUI: SmartNode Enterprise Session Border Router, 2 PRI, Fallback Relays, 30 VoIP calls (non upgradeable); SIP transcoding; SIP Registrar; SIP TLS incl.; 2 Ethernet Ports; 1 USB port; External 100–240 power

SN5570/2E30VRHP/EUI: SmartNode Enterprise Session Border Router, 2 PRI, Fallback Relays, HP, 30 VoIP calls (non upgradeable); SIP transcoding; SIP Registrar; SIP TLS incl.; 2 Ethernet Ports; 1 USB port; External 100–240 power

* Specifications subject to change without notice.
** Additional charges apply for licensed features.
*** Depending on model.

**** Supports up to 512 SIP-to-SIP sessions under ideal conditions. Transcoding, debugging, and/or IP routing reduce processing capacity.