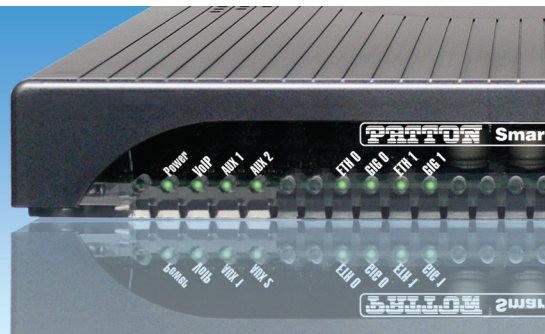


# SmartNode™ Enterprise Session Border Router

## Model 5570



*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.

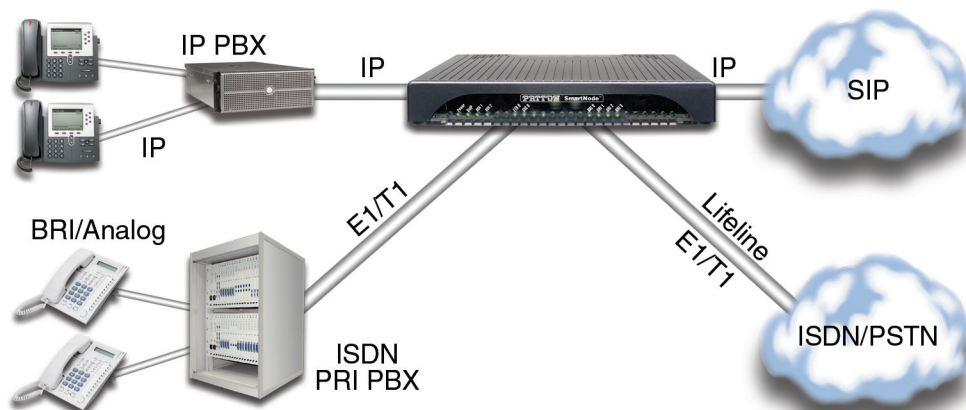
Like every SmartNode, the SN5570 Series models are state-of-the-art ESBRs that also provide complete policy-based IP routing.

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](http://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!



# SmartNode™ Model 5570 ESBR



## 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

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=522&tab=Ordering](http://www.patton.com/products/product_detail.asp?id=522&tab=Ordering)
- email: [sales@patton.com](mailto:sales@patton.com)
- tel: +1 301.975.1000



**Patton Electronics Co.**  
7622 Rickenbacker Drive  
Gaithersburg, Maryland 20879, USA  
Phone +1 301 975 1000  
Fax +1 301 869 9293  
E-mail [sales@patton.com](mailto:sales@patton.com)  
Web [www.patton.com](http://www.patton.com)

**Patton-Inalp Networks AG**  
Meriedweg 7  
CH-3172 Niederwangen, Switzerland  
Phone +41 (31) 985 25 25  
Fax +41 (31) 985 25 26  
E-mail [we@patton.com](mailto:we@patton.com)  
Web [www.patton.com](http://www.patton.com)

**Patton Hungary Zrt**  
Gábor Dénes utca 4., Infopark Building C  
Budapest H-1117, Hungary  
Phone +36 1 439 4840  
Fax +36 1 439 4844  
E-mail [ce@patton.com](mailto:ce@patton.com)  
Web [www.patton.com](http://www.patton.com)

07MSN5570-DS3

Patton is a registered trademark, and is a trademark of Patton Electronics Company in the United States and other countries.

\* 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.