Enterprise Session Border Controller

Model SN5600

The SmartNode 5600 Series of Enterprise Session Border Controllers (eSBC) supports up to 1,000 SIP-to-SIP calls. Service demarcation is key for high quality and reliable services, even in All-IP networks. State-of-the-art security and quality guaranteed.

VoIP Security
Network separation with SIP back-to-back UA, intrusion protection, DoS prevention, trust peer, signaling encryption (SIP-TLS), Stateful Firewall

Session Control
Dynamic SIP Session allocation for a high number of calls. SessionRouter allows flexible call routing and numbering plan adaptations, CLIP/CLIR, hold, transfer, and much more.

SIP Normalization
SIP-to-SIP Interworking – Normalizing different vendor-specific SIP implementa-tions or "dialects". Demarcation point, separation between networks

Network Monitoring & Assessment
Network monitoring probe for QoS meas-urements and proactive alerting to minimize problems. SLA assurance at demarcation point.*

Load Balancing
Call load distribution across multiple net-work links.

IP Routing & Networking
IP Routing Protocol support; GRE, VRRP, RIP, L2TP, etc.

High Availability
Stateful call failover incl. proactive dead call detection. SBC redundancy and failover to secondary, virtual instances.

Easy Management & Provisioning
Patton Cloud Orchestrated, HTTPS zero-touch provisioning, TR-069, WebWizard, SNMP, command line interface. Automated mass provisioning with dual software image for efficient large-scale deployments.

Proprietary Software
Utilizes proprietary Trinity™ Software for added security.

C onnect with confidence using the SmartNode 5600 Series eSBC with an integrated enterprise router to a SIP trunk or hosted PBX service. The SN5600 supports up to 1,000 SIP to SIP calls.

The SN5600 acts as eSBC, access router, and QoS CPE all in one device. It can also undertake network assessment and monitoring at the customer premise by using the PacketSmart™** agent to prevent or reduce and resolve network and voice quality problems.

Network Integration

Whether used as an Enterprise Session Border Controller or IP router, the SmartNode 5600 provides excellent VoIP, IP QoS, and security features for seamless network integration.

Thanks to the built-in SIP back-to-back user agent, it resolves technology evolution related problems by normalizing SIP traffic from different vendor implementations. In addition, enhanced security is given to the enterprise thanks to various features protecting the LAN infrastructure. Number manipulation and call routing options come standard with every Patton eSBC.
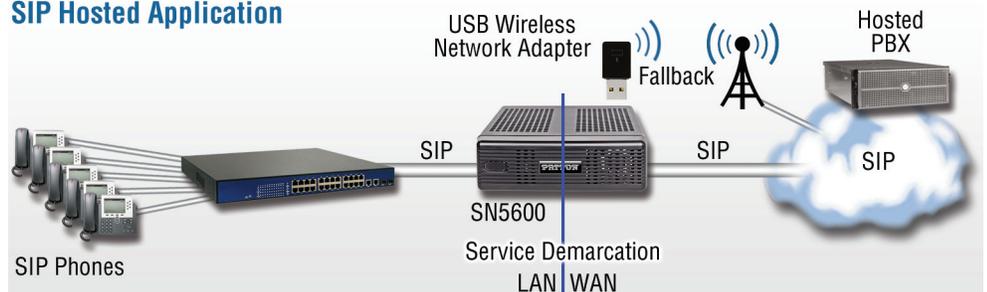
Operated, managed, and administrated through the Patton Cloud, proactive notifi-cation of a customer network problem helps reduce service downtime and increase customer satisfaction.

Visit www.patton.com/smartnode for more information.

SIP Trunk Application
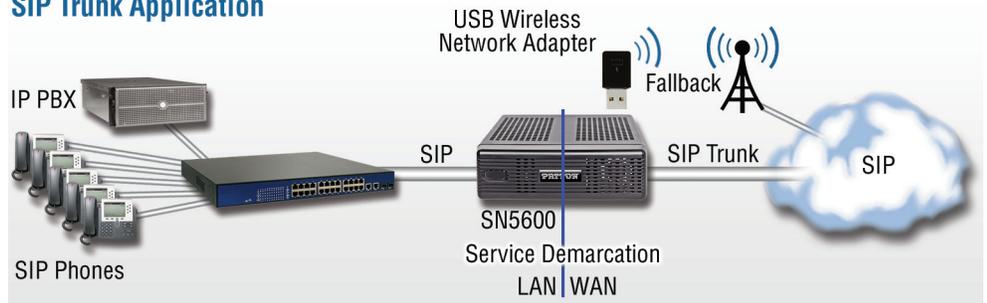
SIP Hosted Application

Specifications

Call Capacity
- Up to 1,000 SIP to SIP calls***

Voice Signaling
- SIPv2 & SIPv2 over TLS
- SIP over IPv4 & IPv6
- SIP call transfer, redirect
- SIP overlap dialing
- DTMF in-band, out-of-band
- 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)
- Transparent Clearchannel (RFC 4040)
- iLBC 13.33k
- AMR-NB (4.75, 5.15, 5.9, 6.7, 7.4, 7.95, 10.2, 12.2 kbps)

VoIP Security
- Network separation
- SIP back-to-back UA
- SIP TLS & SIP message flood prevention
- Open VPN*/IPsec*/L2TP*
- DoS detection & prevention
- Intelligent ACL
- Trusted peer

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
- 2 10/100/1000Base-T Ethernet ports
- 1 HDMI port
- 1 VGA port
- 3 USB ports (2 USB 2.0, 1 USB 3.0)

IP Networking
- Routing Protocol support GRE, VRRP, BGP, RIPv1&v2
- Policy, Packet and packet length Based Routing
- IP Multi-Netting, VLAN, Secondary IP
- Network Address and Port translation (NAT/NAPT)
- IPv4 & IPv6 DHCP Client & Server
- Trusted peer
- Auto-MDIX
- DHCP Client

- PPPoE Client (multi-session)
- IP Multi-Netting, VLAN, Secondary IP
- IPv4, IPv6 Dual Stack
- ICMP
- Dynamic and static NAT and NAPT
- ACL, Stateful Firewall
- DNS, DynDNS
- DHCP Server
- SNTP Client

Management
- Patton Cloud Orchestrated with dynamic resource licensing model (leased/floated)
- Web/HTTPs, CLI with Telnet and SSH access
- WebWizard
- Fully Documented CLI
- Telnet and HTTPs access
- TR-069, TFTP, HTTP, HTTPS configuration up- and download
- TR-069, TFTP, HTTP, HTTPS firmware upgrade
- SNMPv1-3 agent
- RADIUS, TACACS+
- 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 Consumption
< 10W

Packaging
- Metal chassis
- Desktop or wall mountable
- Rackmount option: Roadmap

Dimensions
8.2W x 1.3H x 6.5D in.

(20.8W x 3.4H x 16.5D cm)

Weight
<450g (15.9 oz)

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

Safety & Compliance
- EMC compliance: EN55022 and EN55024
- Safety compliance: EN 60950
- CE compliance
- FCC Part 15 Class A
- RoHS

Specifications subject to change without notice | * Depending on model | ** Licensed Feature at additional charge | *** Supports up to 1,000 SIP-to-SIP calls under ideal conditions. Transcoding, debugging and/or IP Routing reduce processing capacity.