

SmartNode™ Enterprise Session Border Controller IAD

Model 5490



Providing up to 64 transcoded calls, the SmartNode™ 5490 session border controller with built-in WAN router connects the wide range of IP PBX products to their service providers ensuring security and a high level of efficiency in the VoIP network.

VoIP Transcoding

Capacity for up to 80 SIP Sessions whereof 64 SIP Sessions can be transcoded

WAN Access

Fiber SFP, G.SHDSL, EFM & ATM, VDSL-ADSL WAN interface.

IP Routing

RIP, BGP, GRE, Policy Based Routing; Protocol Based Routing; Packet Length Routing; Packet Filtering

QoS and Security

Deliver secure, toll-quality voice communications with Patton's DownStream & UpStream QoS™ with adaptive traffic management and shaping—plus secure voice-over-VPN and extended ACL capabilities.

Easy Management & Provisioning

HTTPS zero-touch provisioning, TR-069, WebWizard, SNMP, command line interface. Automated mass provisioning with dual software image for efficient large-scale deployments.

Proprietary OS

Utilizes proprietary Trinity™ software for enhanced security.

Flexible mounting options

The device can be placed on a desktop or installed in a 19-inch rack using the optional rack ear kit (INS-KIT-RACKEARS-11/19)

Why SmartNode?

- Patton Quality
- Made in the USA
- Unrivaled Customer Support
- FREE Tech Support and Upgrades

The SmartNode 5490 Enterprise Session Border Controller + Router with built-in WAN broadband access is a single integrated session-border-controller platform that bridges the wide range of IP PBX products to their service providers ensuring security and a high level of efficiency in the VoIP network. Connecting the Enterprise's LAN to an Internet Telephony Service Provider (ITSP), the SN5490 session border controller creates a single conduit for multimedia components including voice, video and data.

Through the SIP Back-to-Back User Agent, the SN5490 provides a common interface into the service provider network providing resolution of any differences between the SIP from the IP PBX and the service provider softswitch. Additionally, the SN5490 provides CODEC transcoding for up to 64 SIP sessions insuring the most efficient use of available bandwidth for both voice and data. Reduce WAN-access bandwidth requirements by converting high-bandwidth G.711 calls on your LAN into lower-bandwidth G.723 calls for WAN transport.

For additional security, the SN5490 includes SIP-aware NAT and access controlled lists (ACLs) for maintaining secure communications when SIP traffic crosses the Enterprise edge. In addition, routing capabilities include RIP v1/v2, BGP, GRE, loopback interfaces as well as advanced techniques like policy-based routing (PBR). Furthermore, QoS keeps malicious traffic from affecting bandwidth requirements of PBR-marked essential traffic and DownstreamQoS ensures important voice and fax calls do not get bogged down by such resource-hungry lower priority TCP traffic as FTP downloads.

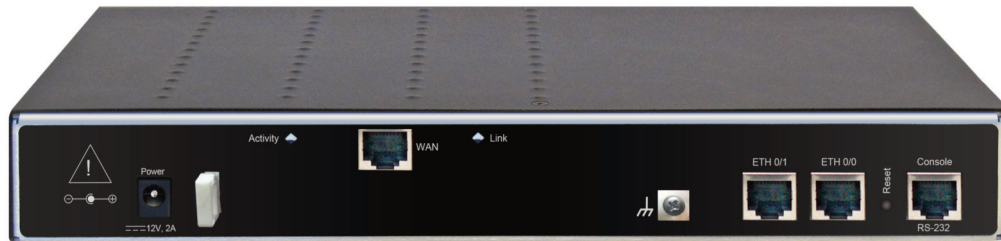
For survivability, the SN5490 is equipped with a link-status-based routing function. This function, together with SIP registrar, enables survivable telephony services to be deployed between intra-office SIP clients in case there is a failure at the SIP provider.

Visit www.patton.com/smartnode for more information about the SmartNode 5490.

Typical Application



SmartNode™ Model 5490 eSBC IAD



Specifications

Capacity

Up to 80* concurrent SIP calls, whereof up to 64 can be transcoded**

Voice Connectivity

Signaling support
Optional SIP Registrar
SIPV2, H.323v4

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
128 ms echo cancellation

IP Routing

IP access router
DHCP Client & Server
RIPv2
BGP
GRE
Packet fragmentation
Firewall

NAT/NAPT RFC 1631
Access Control Lists
DMZ port
IPsec VPN (Option)

Broadband Access G.SHDSL (EFM/ATM):

- Up to 11.4 Mbps ATM
- 22.8 Mbps EFM, 5.7 Mbps per pair, up to 4 pair
- 4-wire G.SHDSL ITU-T G991.2, Annex A, B, F, G
- PPPoE
- PPPoA, IPoA, 8PVCs, each UBR, CBR or VBR-rt selectable
- I.610 OAM F4/F5 support
- G.994.1 (G.hs)

SFP Cage:

- SFP slot for fiber WAN uplink
- 100Base-T and GigE support
- Up to 8 VLANs
- PPPoE

X.21:

- Serial X.21
- Up to 22.8 Mbps

EFM:

- EFM mode compliant to IEEE 802.3 G.998.2
- PPP over Ethernet (RFC2516)
- Support of OAM PDU information and functionality (ITU-T Y.1731)
- OAMPDU event notification, variable request, variable response, and loopback control

Quality of Service

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

Management

- 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 (dual-firmware image)
- SNMPv3, 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

Temperature

32–104°F (0–40°C)

Humidity

Up to 90% (non condensing)

Power

100–240 VAC (50/60 Hz)

Power consumption

15W

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=469&tab=Ordering
- email: sales@patton.com
- tel: +1 301.975.1000



Specifications subject to change without notice.

* up to 80 SIP-to-SIP calls under ideal conditions. Transcoding, debugging and/or IP Routing reduce processing capacity. | ** depending on model



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