

SmartNode[™] 5490

Enterprise Session Border Router with WAN

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

VolP Transcoding

Capacity for up to 64 SIP-SIP calls with transcoding and 196 SIP Sessions without transcoding.

WAN Access

Fiber SFP, G.SHDSL, EFM, Serial X.21, or ADSL WAN interface.

IP Routing

RIP v1/v2, VRRP, Policy Based Routing, Loopback/Virtual Interface, NAPT-capable edge router.

QoS and Security

Deliver secure, toll-quality voice communications with Patton's DownStreamQoS™ with adaptive traffic management and shaping—plus secure voice-over-VPN with AES/DES strong encryption and extended ACL capabilities.

10/100/1000 Ethernet

One 10/100/1000 WAN Ethernet port and one 10/100/1000 LAN Ethernet port.

Proprietary Software

Utilizes proprietary SmartWare™ Software for added 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

he SmartNode 5490 Enterprise Session Border Router with built-in WAN broadband access is a single integrated 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 creates a single conduit for multimedia components including voice, video and data. Evolving from Patton's award winning SmartNode 5490 Series, the next generation SmartNode 5490 Series comes now with IPv6 upgradeable hardware.

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, virtual router redundancy protocol (VRRP), loopback interfaces as well as advanced techniques like policy based routing (PBR). Furthermore, QoS keeps malicious traffic from effecting bandwidth requirements of PBR-marked essential traffic and Downstream QoS ensures important voice and fax calls do not get bogged down by such resource hungry lower priority TCP traffic as FTP downloads.

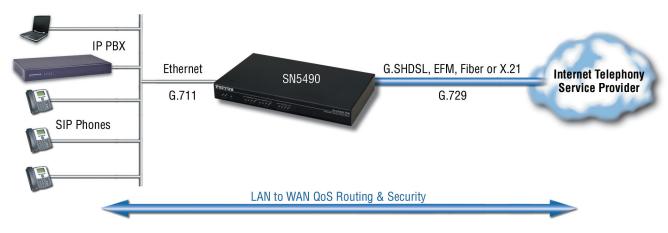
For survivability, the SN5490 is equipped with a link status based routing function. This function, together with SIP registrar, enables survivable telephony services to be deployed between intra-office SIP clients in case there is a failure at the SIP provider.

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





Application Diagram



Specifications*

Capacity

64 Simultaneous Transcoding Channels

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 • VRRP • 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) ^a 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/HTTP, CLI with local console and remote Telnet access • HTTP/TFTP config-

uration & firmware loading • SNMP MIB II and product MIB • Secure autoprovisioning for both firmware and unit/subscriber configuration • Built-in diagnostic tools (trace, debug, call generator)

Temperature

Temp: 32-104°F (0-40°C)

Humidity

Humidity: Up to 90% (non condensing)

Power

100-240 VAC (50/60 Hz)

Power consumption

15W

* Specifications subject to change without notice.

Ordering Info

SmartNode 5490 Enterprise Session Border (ESBR) with WAN

SN5490/32P[*]/EUI: ESBR WITH WAN, 32 Transcoded Calls, not upgradeable, 48 SIP Sessions (SIP back-to-back calls) upgradeable to 196 SIP Sessions (see SNSW-4B), 2x Ethernet. External UI Power

SN5490/64P[*]/EUI: ESBR with WAN, 64 Transcoded Calls, not upgradeable, 96 SIP Sessions (SIP back-to-back calls), upgradeable to 196 SIP Sessions (see SNSW-4B), 2x Ethernet, External UI Power

WAN Options [*]

For **G.SHDSL** option, add **2GS** in SKU (ex: SN5490/32P**2GS**/EUI) For **Fiber** option, add **F** in SKU (ex: SN5490/32P**F**/EUI) For 4-wire EFM option, add 26 in SKU (ex: SN5490/1E30V26/EUI)

For 8-wire EFM option, add 46 in SKU (ex: SN5490/1E30V46/EUI)

For X.21 option, add D in SKU (ex: SN5490/32PD/EUI)

Note: X.21 option is only available for the 32 SIP Session model ("32P")

Options & Accessories

SNSW-4B: SmartNode license for 4 additional SIP sessions (SIP back-to-back calls using 8 SIP legs)

INS-KIT-RACKEARS-11/19: 19-inch Rack Ear Kit



07MSN5490-DS4

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