SmartNode VoIP Gateways & Routers

The SmartNode 4960 integrates with legacy telephony gear to deliver VoIP and data services with QoS and encrypted-voice VPNs. The SmartNode 4960 comes with four T1/E1/PRI ports, two GigE ports, and supports up to 120 simultaneous VoIP calls, making it the ideal choice for low-cost, secure, prioritized communications.

T1/E1/PRI VoIP IAD

SmartNode 4960

Providing a high-density seamless link between the circuit-switched telephone network and voice-over-IP the SN4960 is ideal for PBX business trunking or corporate VoIP access. Offering up to four software configurable T1/E1/PRI interfaces the SN4960 connects to any switch, PBX and data network with up to 120 simultaneous calls using SIP, T1, E1 or PRI signaling. The dual gigabit Ethernet ports connects to the network for the highest throughput with its integrated QoS router. With its built-in CSU/DSU, any T1/E1 port can be selected as a WAN port for a truly integrated voice and data access

Like every SmartNode, the SN4960 delivers toll-quality voice with all industry standard CODECs including low-bandwidth G.723/G.729. Business class services are supported with T.38 fax, fax bypass and modem bypass features.

The SmartNode 4960 is ready for SIP TLS and SRTP through software upgrades. Exclusive DownStreamQoS™ and Voice-over-VPN features give the clear advantage of uninterrupted and secure voice communication for any call today.

Visit www.patton.com for more information.

High Density
Up to 120 simultaneous voice or T.38 fax calls with one to four T1/E1/PRI ports and dual Gigabit Ethernet ports. Use any CODEC or fax on any port, any time.

Universal SIP and T.38 support
Softswitch certified signaling support between all T1 RBS CAS, ISDN PRI, Q.SIG, SIP, H.323 and MGCP/IUA protocols.

Secure Toll-Quality VoIP
DownStreamQoS and Voice-over-VPN with adaptive traffic management and shaping for maximum voice quality and secure voice communication.

Transparent Telephony Features
Handles complex number manipulation and mapping scenarios for most seamless integration with existing infrastructure, CLIP, CLIR, hold, transfer and much more.

Management & Provisioning
Web-based management, SNMP, command line interface. Automated provisioning for easy large-scale deployments.
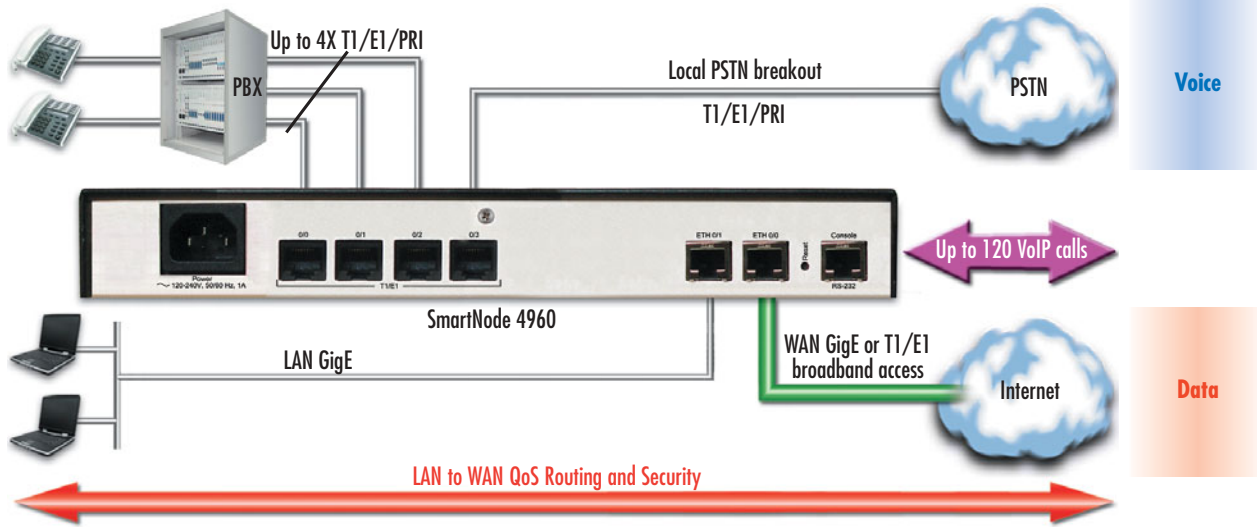
PATTON

GET YOUR ADVANCE SHIP 5 YEARS ENHANCED WARRANTY

Special Rates Available Call for Details

✔ Gigabit Ethernet

✔ Active QoS access router

✔ Up to 120 simultaneous voice or T.38 fax calls—any CODEC

✔ Optional integrated DSL WAN access

SmartNode 4960

Up to 4X T1/E1/PRI

PBX

Local PSTN breakout
T1/E1/PRI

PSTN

Voice

Up to 120 VoIP calls

SmartNode 4960

LAN GigE

WAN GigE or T1/E1
broadband access

Internet

Data

LAN to WAN QoS Routing and Security

Specifications

Voice Connectivity

Up to four software selectable T1/E1/PRI ports

Signalling support:

- ISDN DSS-1, NI-2, Q.SIG
- CAS Robbed bit loop and ground start, E&M, immediate, wink, double wink.

SIPv2 & MGCP/IUA, H.323v4

ISDN AOC/ECT

ISDN speech, audio & data (Fax Gr 4, UDI 64, RDI 64); ISDN supplementary services

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

Call routing and services

Regular expression based call routing and number manipulation

Number blocking

Short-dialing

Digit collection, distribution and hunt groups

Data interfaces

Dual 10/100/1000 TX Ethernet Ports

Autosensing

Auto-MDI

Full-duplex

IP Routing

Complete IP access router

DHCP Client & server

Packet fragmentation

Static firewall, NAT, NAPT RFC 1631 access control lists

IP Quality of Service

Voice priority

DownStreamQoS™

Traffic management, shaping and policing

IEEE 802.1p, TOS, DiffServ labeling

IEEE 802.1Q, VLAN tag insertion/deletion 4,096

Management

Web/HTTP, CLI with local console and remote Telnet access

TFTP configuration & 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)

Power & Packaging

Power: 100–240 VAC (50/60 Hz)

Power dissipation: 15W

Operating Environment

Operating temperature: 32–104°F (0–40°C)

Operating humidity: up to 90%, non condensing

Compliance

EMC compliance: EN55022 and EN55024

Safety compliance: EN 60950

CE compliance

FCC Part 15 Class A; Part 68; CS-03

Ordering Information

SN4960/1E15V/UI: SmartNode Hi-Cap 1 T1/E1/PRI VoIP IAD, 2x GigEthernet, UI power, 15 VoIP Channels non-upgradeable

SN4960/1E24V/UI: SmartNode Hi-Cap 1 T1/E1/PRI VoIP IAD, 2x GigEthernet, UI power, 24 VoIP Channels non-upgradeable

SN4960/1E30V/UI: SmartNode Hi-Cap 1 T1/E1/PRI VoIP IAD, 2x GigEthernet, UI power, 30 VoIP Channels non-upgradeable.

SN4960/4E15V/UI: SmartNode Hi-Cap 4 T1/E1/PRI VoIP IAD, 2x GigEthernet, UI power, 15 VoIP channels field upgradeable to a max of 60 channels.

SN4960/4E24V/UI: SmartNode Hi-Cap 4 T1/E1/PRI VoIP IAD, 2x GigEthernet, UI power, 24 VoIP channels field upgradeable to a max of 60 channels.

SN4960/4E30V/UI: SmartNode Hi-Cap 4 T1/E1/PRI VoIP IAD, 2x GigEthernet, UI power, 30 VoIP channels field upgradeable to a max of 60 channels.

SN4960/4E48V/UI: SmartNode Hi-Cap 4 T1/E1/PRI VoIP IAD, 2x GigEthernet, UI power, 48 VoIP channels field upgradeable to a max of 60 channels.

SN4960/4E60V/UI: SmartNode Hi-Cap 4 T1/E1/PRI VoIP IAD, 2x GigEthernet, UI power, 60 VoIP channels.

SN4960/4E96V/UI: SmartNode Hi-Cap 4 T1/E1/PRI VoIP IAD, 2x GigEthernet, UI power, 96 VoIP channels field upgradeable to a max of 120 channels.

SN4960/4E120V/UI: SmartNode Hi-Cap 4 T1/E1/PRI VoIP IAD, 2x GigEthernet, UI power, 120 VoIP channels

Options & Accessories

SNSW-49V6: 6 channel Voice Expansion Key for SN4960 VoIP IADs. Software expansion for additional voice channels.

SNSW-VPN2: Software option for IPsec VPN, including DES/3DES and AES encryption, IKE and Voice-Over-VPN.

SNSW-QSIG2: Support for ISDN Q.SIG

Specifications subject to change without further notice. The terms *SmartNode, DownStreamQoS* and *SessionRouter* are trademarks of Patton Electronics Co.