Multi-Port T1/E1 VoIP Integrated Access Device

SmartNode™ 4960

The award-winning 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.

Up to 120 VoIP Calls
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, and H.323.

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.

Failover Relay
Optional feature that ensures you can still make PSTN calls if there is a power failure.

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 connect 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 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.

Many business class features are provided in the SmartNode 4960 product line, including Failover Relay for increased call reliability. Multi-link PPP and Frame Relay are provided as configurable software options for customers who need to bond E1/T1 lines. An X.21 WAN port is also available for serial WAN services.

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.
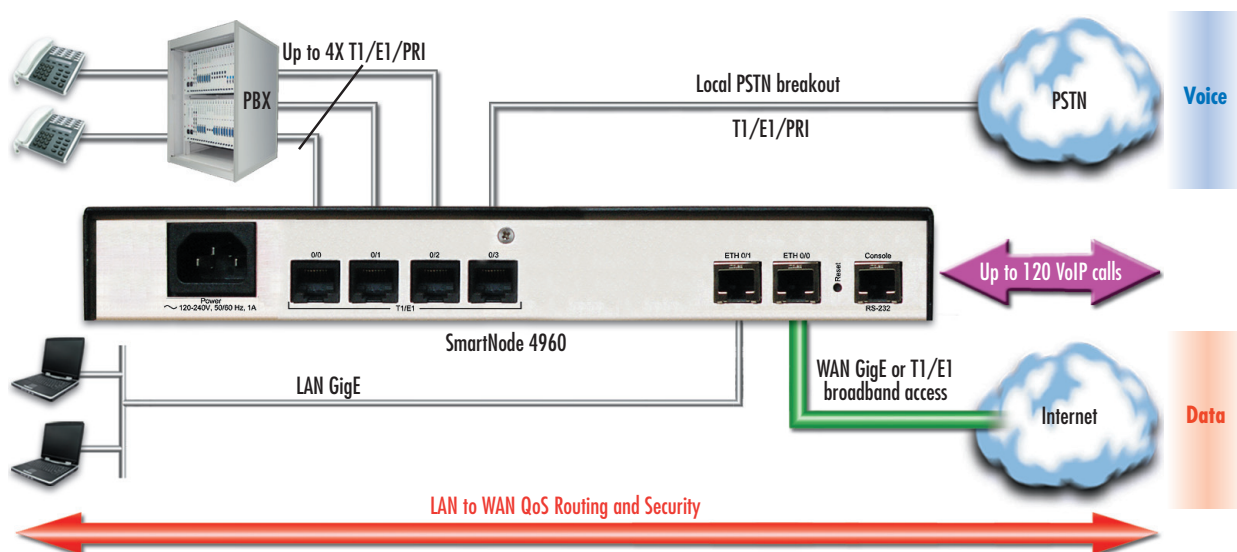
Visit www.patton.com for more information.

GET YOUR ADVANCE SHIP 5 YEARS ENHANCED WARRANTY
Special Rates Available
Call for Details

Proven Patton design, Patton supported

Up to four T1/E1/PRI ports

2006 INTERNET TELEPHONY® PRODUCT OF THE YEAR

Front panel indicators show system status at-a-glance

Dual Gigabit Ethernet ports can be used for LAN, WAN, or DMZ

EIA-232 console port

Up to 4X T1/E1/PRI

PBX

Local PSTN breakout

T1/E1/PRI

PSTN

Voice

Power 120-240V, 50/60 Hz, 1A

0/0 0/1 0/2 0/3

T1/E1

ETH 0/1 ETH 0/0 Reset Console RS-232

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 • Signaling support (ISDN DSS-1, NI-2, Q.SIG, 5ESS, CAS Robbed bit loop and ground start, E&M, immediate, wink, double wink) • SIPv2, H.323v4 • ISDN AOC/ECT • ISDN speech, audio & data (Fax Gr 4, UDI 64, • RDI64) • ISDN sup-plementary 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 • 128 ms echo cancellation

Call routing and services
Regular expression matching and 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 policing • IEEE 802.1p, TOS, DiffServ labeling • IEEE 802.1Q, VLAN tag insertion/deletion 4,096

Management
Web/HTTP, CLI with local console & remote Telnet access • TFTP configura-tion & firmware loading • SNMP MIB II and product MIB • Secure autoprovision-ing for firmware & unit/subscriber con-figuration • Built-in diagnostic tools (trace, debug, call generator)

Environment
Temp: 32–104°F (0–40°C); Humidity: Up to 90% (non condensing)

Power
100–240 VAC (50/60 Hz)
Power consumption: 15W

Compliance
EMC: EN55022 and EN55024 • Safety: EN 60950 • CE • FCC Part 15 Class A; Part 68; CS-03 • RoHS

Ordering Information**

SN4960 SmartNode T1/E1/PRI VoIP IAD: Hi-Capacity, 2x GigEthernet, Internal UI power
SN4960/1E15V/UI: 1 E1/T1, 15 VoIP Channels, upgradeable to 30 calls.
SN4960/1E24V/UI: 1 E1/T1, 24 VoIP Channels, upgradeable to 30 calls.
SN4960/1E30V/UI: 1 E1/T1, 30 VoIP channels, non- upgradeable.
SN4960/4E15V/UI: 4 E1/T1, 15 VoIP channels, upgradeable to 60 channels.
SN4960/4E24V/UI: 4 E1/T1, 24 VoIP channels, upgradeable to 60 channels.
SN4960/4E30V/UI: 4 E1/T1, 30 VoIP channels, upgradeable to 60 channels.
SN4960/4E48V/UI: 4 E1/T1, 48 VoIP channels, upgradeable to 60 channels.

SN4960/4E60V/UI: 4 E1/T1, 60 VoIP channels, non-upgradeable
SN4960/4E96V/UI: 4 E1/T1, 96 VoIP channels, field upgradeable to 120 channels.
SN4960/4E120V/UI: 4 E1/T1, 120 VoIP channels, non-upgradeable.

Options & Accessories
SNSW-49V6: 6 channel Voice Upgrade Key for SN4960 VoIP IADs. Software expan-sion for additional voice channels.
SNSW-VPN2: Software option for IPsec VPN, including DES/3DES and AES encryp-tion, IKE and Voice-Over-VPN.
SNSW-QSIG2: Support for ISDN Q.SIG.

* Specifications subject to change without notice.
** For a complete ordering list, contact sales@patton.com.

WAN Options include G.SHDSL, X.21, Frame Relay, PPP, and ML-PPP over E1/T1.
Relay Option: Between port 0/0 and port 0/1