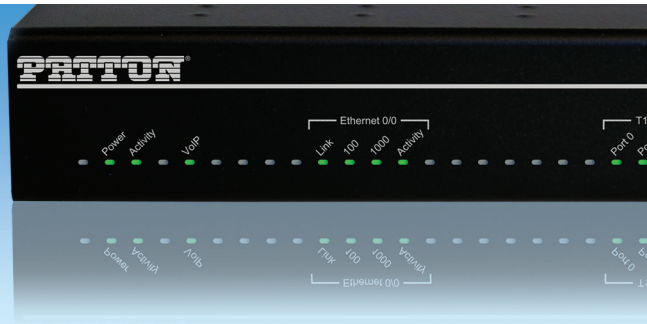


SmartNode™ T1/E1/PRI VoIP Gateway

Model 4970



Transport your legacy PBX in to the World of All-IP with an Enterprise-class SmartNode 4970 VoIP Gateway. Supports up to 120 concurrent VoIP calls, secure-zero-touch provisioning, TR-069 and much more.

15 to 120 VoIP calls

with up to four T1/E1/PRI ports and a single Gigabit Ethernet port.

Management & Provisioning

Web-based management, WEB Wizard, TR-069, SNMPv3, command line interface, auto-provisioning, separate config. domain support, secure zero-touch provisioning for configuration and software upgrades.

Proven Interoperability

SIP interop with major IP PBX, Softswitch and VoIP Service Providers. Over 100,000 SmartNode deployments worldwide. ISDN/PSTN compliance in nearly every country.

Transparent Telephony Features

Complex number manipulation and mapping for seamless integration with existing infrastructures, CLIP, CLIR, hold, transfer and much more.

High Precision Clock

Delivers DECT PBX interoperability with reliable fax performance.

Flexible Mounting Options

The device can be placed on a desktop or installed in a 19-inch rack using the optional

The SmartNode™ 4970 VoIP Gateway offers Enterprises a cost-effective solution to integrate their legacy PBX systems in to an All-IP based Unified Communication environment with state of the art features such as IPv6, TR069, Patton Cloud Connect, Survivability features and much more.

Like every SmartNode™, the SN4970 supports every industry-standard CODEC to deliver tollquality voice on every call. The Unified Communications Agent™ (UCA) provides any-to-any multi-path switching (simultaneous SIP and ISDN calls with routing and conversion between TDM/PSTN and IP/Ethernet networks—plus T.38 and SuperG3 FAX).

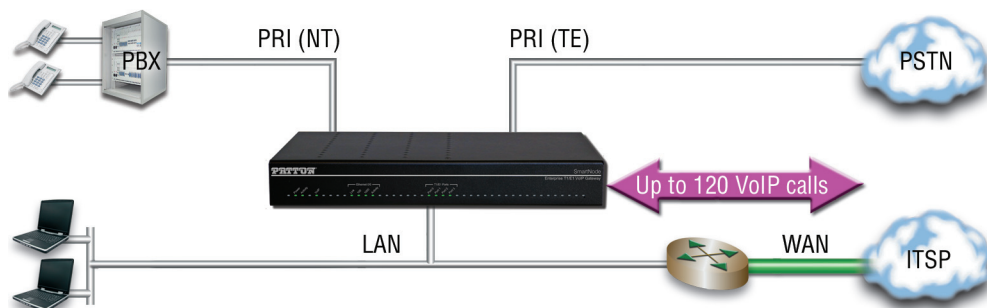
As an option the SN4970 can be Software upgraded to do VoIP-over-VPN* with voice encryption providing secure voice and data via IPsec, OpenVPN or L2TP tunneling protocol in addition to SIP-TLS* & SRTP*. The advanced call-router functionality includes least-cost call routing with flexible dialed-number plan support.

The SmartNode survivability suite offers PSTN fallback to ensure business continuity in case the IP network fails. Furthermore, SmartNode's high-precision clock delivers first-line IP telephony service in demanding ISDN and DECT environments with reliable FAX and modem performance. In addition, SmartNode delivers a smooth transition to All-IP with strong number portability support accepting incoming calls from the PSTN throughout the VoIP service provider's number porting process.

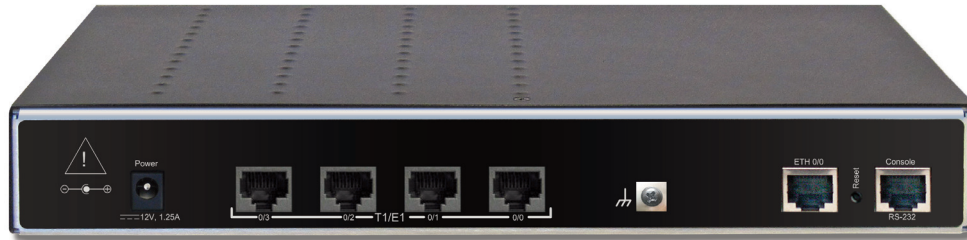
Preserve investments in legacy phone equipment while taking the next steps toward unified communications with the SN4970 VoIP Gateway. Providing 1 to 4 T1/E1/PRI and a 10/100/1000 Ethernet for up to 120 VoIP calls, the SN4970 delivers a reliable, cost-effective solution for the Enterprise.

Visit www.patton.com/smartnode for more information about the SmartNode 4970.

Typical Application



SmartNode™ Model 4970 T1/E1/PRI VoIP Gateway



Specifications

PSTN

Up to four T1/E1/PRI ports (NE/TE)

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

ISDN AOC/ECT

ISDN speech, audio & data (Fax Gr 4, UDI 64, RDI64)

ISDN supplementary services R2/MFC-R2 (Q.400–Q.490 and configurable country profiles), Fallback relays on four-port versions

VoIP

SIPV2 over IPv4 & IPv6 (SIP Info, Update, PRACK, Privacy, Refer), B2BUA (max. 80 calls***)

Optional SIP-TLS & SRTP*, SIP Registrar*, SIP Transcoding*

Voice Processing

Codec G.711 a-law/mu-law, G.723, G.729ab, G.726, G727, 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 call routing and manipulation, number blocking, short-dialing, digit collection, distribution and hunt groups

Connectivity

Single 10/100/1000Base-T Ethernet port
Auto-MDIX
DHCP Client
DHCP Server
PPPoE Client (multi-session)
VLAN support
IPv4 & IPv6 Dual Stack

ICMP

ACL, Stateful Firewall
DNS, DynDNS
SNTP Client
VPN IPsec*, L2TP*, OpenVPN*

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, HTTP, HTTPS, TR-069 configuration & firmware loading
SNMP MIB 1, 2, 3 and product MIB

Secure autoprovisioning for firmware & unit/subscriber configuration
Built-in diagnostic tools (trace, debug, call generator)

Power & Packaging Desktop metal chassis

Dimensions:

30.1W x 4.5H x 18.1D cm
(11.9W x 1.8H x 7.1D in.)

Weight: < 30 oz (850g)

Internal Power: 100–240 VAC
(50/60 Hz)

Power Consumption < 15W

Operating Environment

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

Operating humidity: up to 90%, non-condensing

Compliance

EMC: EN55022 and EN5502 • Safety: EN 60950 • CE • FCC Part 15 Class A; Part 68; CS-03

Ordering Info

Obtain ordering info for this product by using the QR code at right or by contacting:

- web: <https://www.patton.com/voip-gateway/sn4970/>
- email: sales@patton.com
- tel: +1 301.975.1000



Specifications subject to change without notice.

* Additional charges apply for licensed features.

** Depending on model.

*** Supports up to 80 SIP-to-SIP sessions under ideal conditions.

Transcoding, debugging, and/or IP routing reduce processing capacity.



Patton Electronics Co.
7622 Rickenbacker Drive
Gaithersburg, Maryland 20879, USA
Phone +1 301 975 1000
Fax +1 301 869 9293
E-mail sales@patton.com
Web www.patton.com

Patton-Inalp Networks AG
Meriedweg 7
CH-3172 Niederwangen, Switzerland
Phone +41 (31) 985 25 25
Fax +41 (31) 985 25 26
E-mail we@patton.com
Web www.patton.com

Patton Hungary Zrt
Gábor Dénes utca 4., Infopark Building C
Budapest H-1117, Hungary
Phone +36 1 439 4840
Fax +36 1 439 4844
E-mail ce@patton.com
Web www.patton.com

07MSN4970-DS3

Patton is a registered trademark, and is a trademark of Patton Electronics Company in the United States and other countries.