

SmartNode™ E1/T1 PRI VoIP Gateway

Model 4170



Transport your enterprise phone system to the world of IP Telephony with the SN4170 T1/E1/PRI Gateway. Supports up to 30 concurrent G.711/ G.722 voice/fax calls with secure HTTPS, stateful firewall, and TLS/SRTP.**

From 15 to 30 VoIP calls

One ISDN PRI E1/T1 port. Up to 30 G.722, T.38 or G.711 calls simultaneously. Optionally SRTP** support for 30 calls.

Full Telephony Features

SessionRouter allows flexible call routing and numbering plan adaptations, CLIP/CLIR, hold, transfer, 3-way conferencing (Roadmap) and much more.

Management & Provisioning

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

Network Connectivity

One 10/100/1000 Ethernet port with auto MDI-X Ethernet. Supports VLAN, TOS and Diffserv tagging. Basic IPv6 support.

Full VoIP protocol support

SIPv2, SIP v2 over TLS**, ISDN, DSS1, NI-2, QSIG**, T.38, G.722 HD voice, RTP Security with SRTP**, fax and modem bypass, DTMF relay.

Outstanding Interoperability

Interoperable for voice and T.38 fax with leading SIP service providers, soft-switch vendors, and various IP-PBXs.

Class A Compliance

All models with external (EUI) power supply.

High Precision Clock Option

DECT PBX interoperability and improved fax performance with Stratum 3 CO quality clock (HP)**.

The SmartNode 4170 series is the next-generation ISDN E1/T1 model of the proven market-leading SmartNode VoIP product family. It fits perfectly the requirements of small and medium-sized enterprises looking for cost-effective ways to bridge PBX systems on multiple sites or connect them to a public Internet telephony service.

SmartNode's unique high-precision clock*** delivers first-line IP telephony service in demanding ISDN and DECT environments, along with reliable FAX and modem performance. Providing one E1/T1, one Gigabit Ethernet port, and up to 30 VoIP calls, the SN4970 delivers a reliable, cost-effective solution for the Enterprise.

Like every Trinity SmartNode, the SN4170 Series models are state-of-the-art VoIP gateways that include the built-in WEB Wizard for fast and easy configuration. You can build your own WEB interface using the WEB Wizard functionalities.

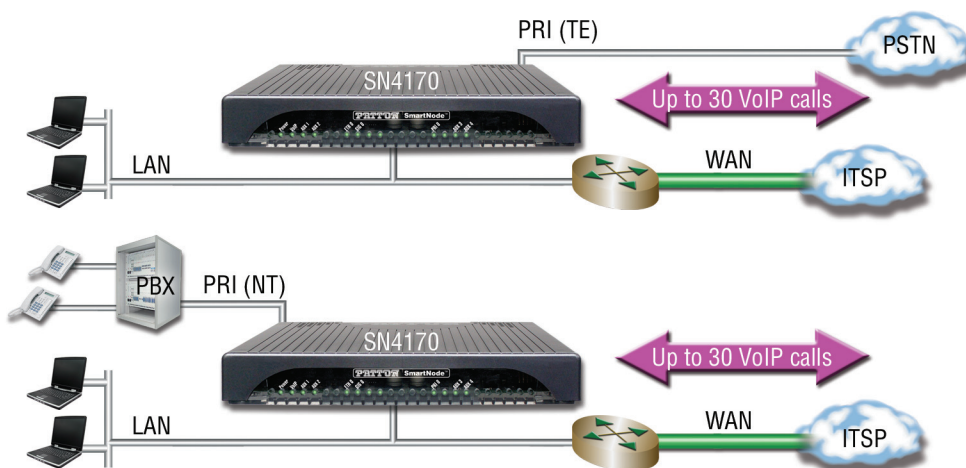
The SmartNode 4170 is also the solution for service providers and network integrators looking for a VoIP product that matches up to ISDN standards in terms of features and quality.

SmartNode products provide seamless network integration, continuous trouble-free operation and cost effective deployment to protect your investments for the future. Preserve investments in legacy phone equipment while taking the next steps toward unified communications with the SN4170 VoIP Gateway.

Visit www.patton.com for more information.

Network Integration

The SmartNode 4170 provides excellent VoIP and Security features for seamless network integration. The E1/T1 PRI port is configurable to be TE or NT, you can connect your PSTN line or an ISDN PRI PBX. For business class IP telephony at the tip of your fingers, the SmartNode 4170 is more than just talk!



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Specifications*

Voice Signaling

SIPv2
SIPv2 over TLS**
SIP call transfer, redirect
Overlap or en-bloc dialing
DTMF in-band, out-of-band
Configurable tones

Call Routing & Services

Regular expression number matching
Regular expression number manipulation
Least Cost Routing
Number blocking
Short-Dialing
Digit collection
Distribution- and Hunt-Groups

ISDN

One E1/T1 PRI port, RJ-45 (NE/TE)
DSS1, Q.921, Q.931, NI-2
HP*** High Precision Clock
Stratum 3 CO
Optional QSIG support**

Voice Processing

G.722
G.722.2 WB-AMR

G.711m/A-law
G.723.1 (6.4Kbps)
G.729, 729a, 729ab (8 kbps)
G.726 (16, 24, 32, 40 kbps)
iLBC at 13.33 & 15.2 kbps
G.168-2004 echo cancellation (128 ms)

30 simultaneous HD voice
G722, G.711 or T.38 fax calls
30 calls with SRTP
Transparent ISDN data
Up to 512 SIP to SIP calls****
Silence suppression and comfort noise
Adaptive and configurable de-jitter buffer
Configurable packet length

Packet Tagging and VLAN

IEEE 802.1p, IEEE 802.1Q, 4096 VLANs
(Tag insertion/deletion), TOS, DiffServ Labeling

Connectivity

One 10/100/1000Base-T Ethernet port
Auto-MDIX
1 USB 2.0 host port

DHCP Client
DHCP Server
PPPoE Client (multi-session)
VLAN support
IPv4
Basic IPv6
ICMP
ACL
DNS, DynDNS
SNTP Client

Management

Web-based GUI
WEB Wizard
Fully Documented CLI
Telnet and HTTP access
TFTP, HTTP, HTTPS configuration up- and download
TFTP, HTTP, HTTPS firmware upgrade
SNMPv3 agent
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

Power & Packaging

Power Consumption < 10W
Desktop/Wallmount plastic chassis

Physical

Size: 20.8W x 3.4H x 16.5D cm
(8.2W x 1.3H x 6.5D in.)
Weight: <450g (15.9 oz)

Environment

Operating temp.: 32–104°F
(0–40°C)
Operating humidity: up to 90%, non-condensing

Compliance

FCC Part 15, Class A
EN55022, Class A
EN55024

Safety

UL60950-1/CSA C22.2 No. 60950-1
IEC/EN 60950-1, 2nd edition
AS/NZS 60950-1

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=523&tab=Ordering
- email: sales@patton.com
- tel: +1 301.975.1000



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* Specifications subject to change without notice.

** Additional charges apply for licensed features.

*** Depending on model.

**** Supports up to 512 SIP-to-SIP sessions under ideal conditions.