



Secure ISDN VoIP and VPN Voice-over-VPN IAD

SmartNode 4562

Optimized for secure, IPsec-encrypted voice-and-data processing, the SmartNode 4562 voice-over-VPN router for ISDN users delivers cost-saving, revenue-generating VoIP to carriers and enterprises.

Accelerated Voice over VPN

Encrypts voice, signaling and data traffic over IP networks with IPsec, AES, 3DES and IKE. Complete access router with NAT, firewall, PPPoE, DHCP and DynDNS.

Full SIP and T.38 support

Complete range of industry standard signaling protocols supported: SIPv2, H.323v4, MGCP/IUA, DSS1, Euro-ISDN, VN4, T.38 fax, fax and modem bypass, DTMF relay.

Toll-Quality VoIP

Advanced traffic management and shaping, combined with Patton's patent-pending DownStream QoS enforce uninterrupted toll-quality voice over best-effort networks.

Transparent Telephony Features

Preserves ISDN features like caller ID and name (CLIP/CLIR), call transfer, hold, waiting, AOC and much more. Handles complex number manipulation for most seamless integration with existing infrastructure.

Management & Provisioning

Web based management, SNMP, Command Line Interface. Automated Provisioning for easy large-scale deployments.

- ✓ Voice, signaling and data secured with IPsec/AES encryption
- ✓ 2 simultaneous voice or fax calls—any codec
- ✓ Integrated access router and 4-port Ethernet switch
- ✓ Transparent voice features, life-line support

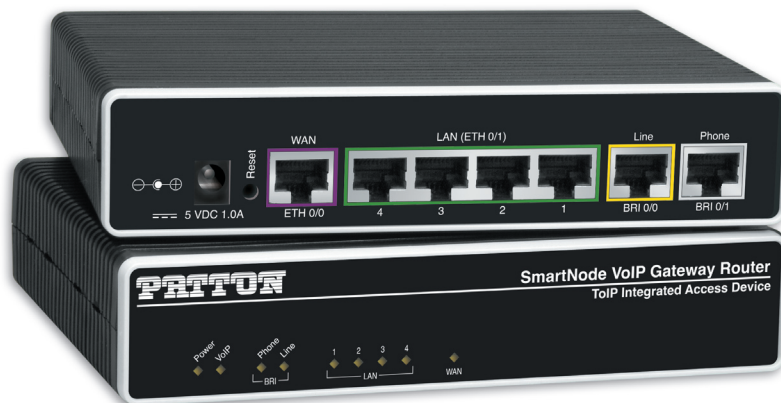
Featuring hardware-accelerated voice encryption and software optimized for security processing, the SmartNode™ 4562 makes VoIP accessible to organizations that have been missing out on the cost-saving benefits of Internet telephony because of security concerns.

The SmartNode 4562 securely integrates remote or branch offices into the corporate voice and data network using state-of-the-art ISDN VoIP technology. With all inter office traffic secured by IPsec/AES strong encryption and Internet Key Exchange (IKE), users can replace expensive leased lines with low-cost Internet access. All RTP, SIP signaling and data communication are transported through the IPsec

VPN tunnel, protecting them from wiretapping, sniffing, or attacks. Patton's exclusive QoS features, including advanced traffic shaping, VLAN tagging, 802.1p/q and DSCP enforce toll-quality, uninterrupted voice, also inside the secure VPN tunnel.

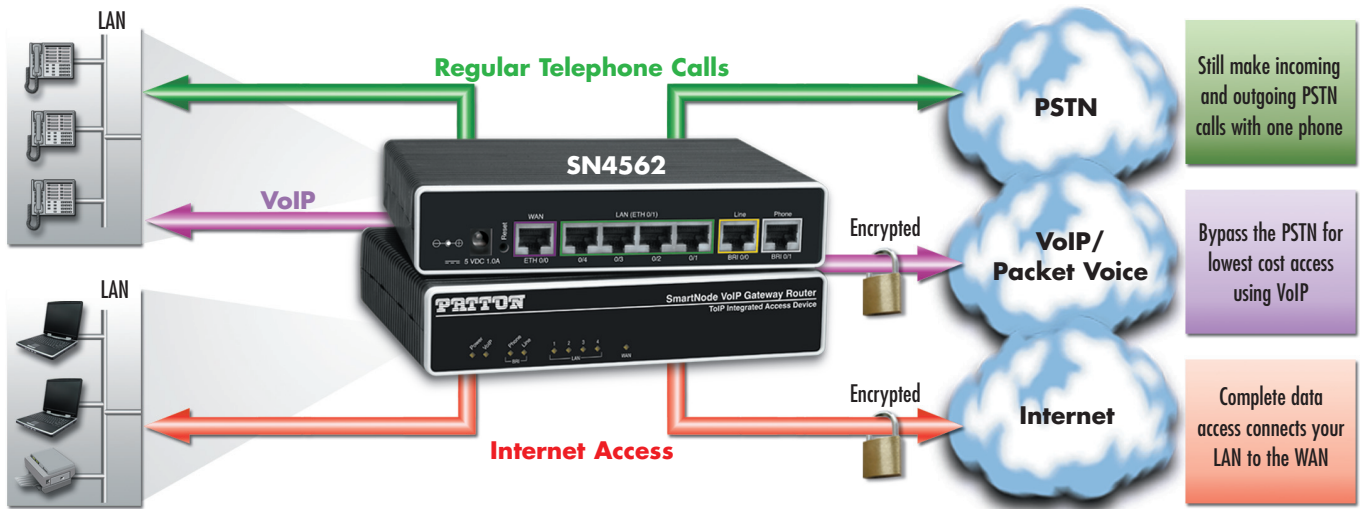
Industry-leading call routing features include hard and soft communication fallback to the ISDN breakout port in the event of failure. A complete set of industry standard codecs deliver toll-quality voice while T.38 fax, fax bypass, and modem bypass features ensure that no services are interrupted when migrating to VoIP.

Visit www.patton.com for more information.



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Network Integration



Specifications

Signaling

SIPv2 • H.323v4 • MGCP/UA • 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 • Number blocking • Digit collection

ISDN

1 port NT, 1 port TE Euro-ISDN BRI So • Point-point and point-multipoint • Lifeline Bypass Relay • Optional QSIG support

Voice Processing

G.711m/A-law • G.723.1 (6.4 kbps) • G.729, 729a, 729ab (8 kbps) • G.726 (16, 24, 32, 40 kbps) • G.168 echo cancellation (25 ms) • Transparent ISDN data •

Silence suppression and comfort noise • Adaptive and configurable dejitter buffer • Configurable packet length

Fax and Modem Support

T.38 Fax over IP • Fax relay and bypass • Modem bypass

Security

12 simultaneous IPsec VPNs • Hardware accelerated encryption • 3DES 192bit, DES, AES 256bit • Voice-over-VPN • IKE

IP Quality of Service

Voice priority • DownStreamQoS™ • Traffic Management, shaping policing • IEEE 802.1p, IEEE 802.1Q, 4096 VLANs (Tag insertion/deletion), TOS, DiffServ Labeling

LAN and IP Services

4-port 10/100Mbps LAN Switch • Dynamic and static NAT and NAPT • ACL Firewall • DNS, DynDNS • DHCP Server • SNTP Client • IGMP proxy

WAN Connectivity

10/100Base-T Ethernet WAN • Auto-MDI-X • DHCP Client • PPPoE Client (multi-session) • IP Multi-Netting

Management

Web-based GUI • Fully Documented CLI •

Telnet and HTTP access • TFTP configuration up- and download • TFTP firmware upgrade • SNMP (MIB II and private MIB) • Built-in diagnostic tools • Secure Auto-Provisioning

Power & Packaging

Desktop metal chassis
Dimensions: 11.0W x 1.5H x 6.2D in. (28W x 3.9H x 15.7D cm)
Weight: < 21 oz (600 g)
Power Consumption < 10 W

Operating Environment

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

Compliance

FCC Part 15 Class A (US EMC)
CE per RTTE 99/5/EC (EMC and LVD)
Safety—EN60950
TBR-3 (ISDN BRI/So)

Ordering Information

SN4562/2BIS/EUI 2-port ISDN VoIP-VPN Router, 10/100Mbps WAN port, 4-port 10/100Mbps LAN switch, 100–240VAC external power supply. Includes free software upgrades.

Options & Accessories

PM-BRI-EXT External S-Bus Phantom-Power Supply 40V DC for Phone only (not required)
SNSW-QSIG1 License Key for QSIG support

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

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