Multiport ISDN VoIP IAD

SmartNode 4630 Series BRI So Gateway Router

The SmartNode 4630, with up to 5 BRI ports and 8 simultaneous voice channels, is the best way to connect ISDN networks to the world of voice over IP. It enables small offices/remote offices to lower communication costs and provides business-class Internet telephony for demanding ISDN users.

3/5 Ports Quality ISDN VoIP
3 or 5 ISDN BRI So ports, 4 or 8 low-bandwidth voice or T.38 fax calls. Advanced adaptive traffic management and shaping for maximum voice quality. Voice prioritization and DownStreamQoS℠.

Full Telephony Features
SessionRouter™ allows flexible call routing and numbering plan adaptations, CLIP/CLIR, hold, transfer, and much more.

Management & Provisioning
Web-based management, SNMP, command line interface, & auto-provisioning for automated configuration & SW upgrades.

Complete Access Routing
Two 10/100 Ethernet ports with auto MDI-X. Access router with NAT, Firewall, PPPoE, DHCP, DynDNS & VPN with IPsec.*

Full VoIP protocol support
SIPv2, H.323v4, MGCP/IUA, ISDN, DSS1, QSIG, T.38, fax and modem bypass, DTMF relay.*

Outstanding Interoperability
Interoperable for voice and T.38 fax with leading SIP service providers, soft-switch vendors, and Asterisk™ IP-PBX.

Class B Compliance
Available on all EUI model codes.

High Precision Clock Option
DECT PBX interoperability and improved fax performance with Stratum 3 CO quality clock.

The SmartNode 4630 series are the multi-port ISDN BRI models of the proven market-leading SmartNode VoIP product family. The available 3 and 5 BRI/So port configurations fit the requirements of small and medium enterprises looking for a cost-efficient way to network PBX systems on multiple sites or connect to a public Internet telephony service.

The extra BRI port solves many VoIP network integration problems encountered in real-world installations. The port can synchronize the gateway and provide error-free ISDN data and fax transmissions, and it can be used as a fallback or local-breakout port for optimized call-routing and risk-free operation. With the life-line relay, the port even enables integration of an ISDN emergency terminal powered from the public ISDN.

Like every SmartNode, the 4630 Series models are state-of-the-art VoIP gateways that also provide complete access routing and IP security features. Use the SmartNode as CPE or access router on broadband access, and you can benefit from industry leading Quality of Service (QoS) features ensuring a voice quality unmatched by any IP-phone or gateway on the market.

Special Rates Available Call for Details

The SmartNode 4630 is 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.
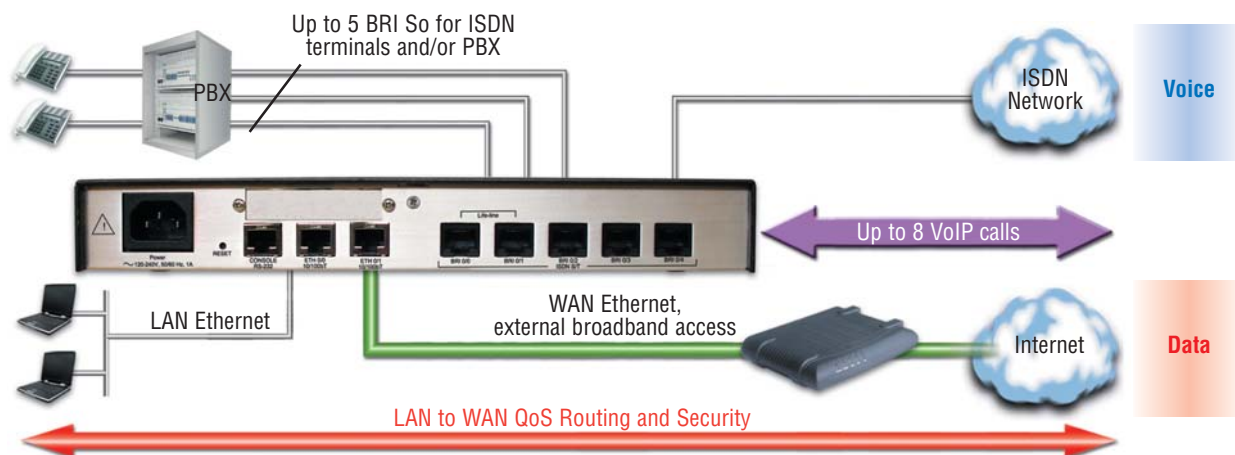
Visit www.patton.com for more information.

Internal power supply

Console port

Dual 10/100BaseT Ethernet ports

Up to 5 ISDN NT/TE BRI ports

Proven Patton design, Patton supported

PATTON®

Network Integration

Whether used as a gateway or as an access router, the SmartNode 4630 provides excellent VoIP and IP QoS features for seamless network integration. All BRI ports are configurable to be TE or NT, you can thus connect your telco line(s) as well as a PBX or ISDN terminals. Terminals are powered with the built-in power supply, eliminating the need for an external box. For business class IP telephony at the tip of your fingers, the SmartNode 4630 is *more than just talk!*

Specifications*

Voice Signaling
SIPv2 • H.323v4 • MGCP/IUA • 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
3/5 BRI So ports, RJ-45 • NT/TE configurable per port • Built-in line power on each port (total 4W) • DSS1, Q.921, Q.931. NTT-64 • Point-point and point-multipoint • Lifeline Bypass Relay • Optional QSIG support*

Voice Processing
G.711m/A-law • G.723.1 (6.4Kbps) • G.729, 729a, 729ab (8Kbps) • G.726 (16 ,24, 32, 40 Kbps) • G.168 echo cancellation (25ms) • 4/8 simultaneous low-bandwidth voice or T.38 fax calls • Transparent ISDN data • Silence suppression and comfort noise • Adaptive and configurable dejitter buffer • Configurable packet length

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

Connectivity
Two 10/100bT Ethernet ports • Auto-MDIX • DHCP Client • PPPoE Client (multi-session) • IP Multi-Netting, VLAN, Secondary IP • IPv4, RIPv2, ICMP • Dynamic and static NAT and NAPT • ACL Firewall • DNS, DynDNS • DHCP Server • SNTP Client • Optional IPsec VPN (DES, 3DES, AES)

Management
Web-based GUI • Fully Documented CLI • Telnet and HTTP access • TFTP configuration up- and download • TFTP firmware upgrade • SNMPv1 agent (MIB II and private MIB) • Built-in diagnostic tools • Secure Auto-Provisioning

Power & Packaging
Desktop metal chassis • Dimension: 280/39/157 mm (W/H/D) • Weight: < 600g • Power Consumption < 10W

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

Compliance
FCC Part 15 Class A (US EMC) • FCC Part 15 Class B on EUI model • CE per RTTE 99/5/EC (EMC and LVD) • Safety - EN60950 • TBR-3 (ISDN BRI/So) • JATE

Ordering Information

SN4634/3BIS/UI: 3 BRI/So 4-call VoIP Router, Dual 10/100 Ethernet, Internal 90–250V power

SN4638/5BIS/UI: 5 BRI/So 8-call VoIP Router, Dual 10/100 Ethernet, Internal 90–250V power

SN4634/3BIS/EUI: 3 BRI/So 4-call VoIP Router, Dual 10/100 Ethernet, External 90–250V power

SN4638/5BIS/EUI: 5 BRI/So 8-call VoIP Router, Dual 10/100 Ethernet, External 90–250V power

SN4635/3BIS/EUI: 3 BRI/So 4-call VoIP Router, Dual 10/100 Ethernet, External 90–250V power, High Precision Clock

SN4639/5BIS/EUI: 5 BRI/So 8-call VoIP Router, Dual 10/100 Ethernet, External 90–250V power, High Precision Clock

Software options (ordered separately)
SNSW-VPN1: License Key for IPsec VPN (DES, 3DES, AES)

SNSW-QSIG1: License Key for QSIG

SNS-DB1: Licene Key for ISDN dial-backup

* Specifications subject to change without notice.