SmartNode VoIP Gateways & Routers

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.

Multiport ISDN VoIP IAD

SmartNode 4630 Series BRI So Gateway Router

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.

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.

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.
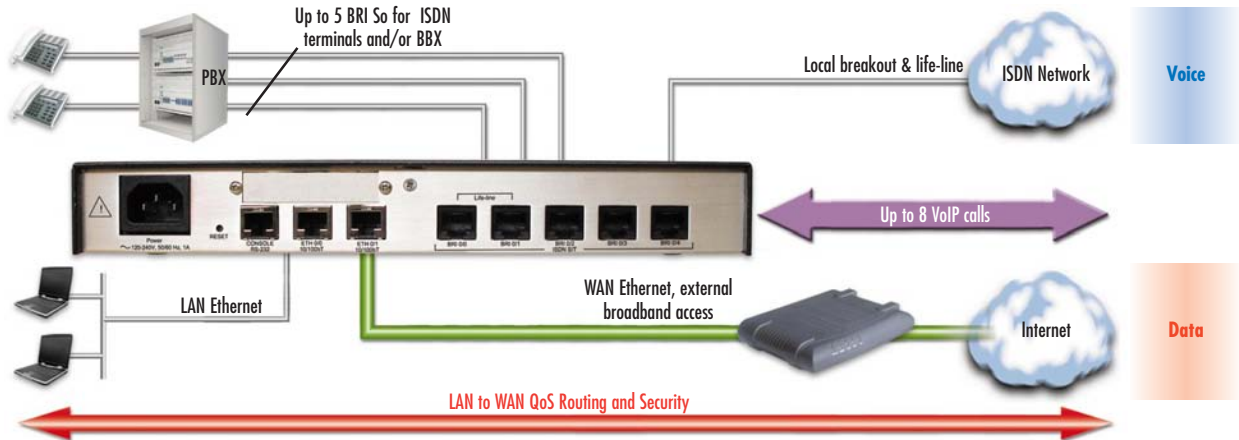
Outstanding Interoperability

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

PATTON

SmartNode 4638

✔ 3 or 5 ISDN BRI So ports with integrated life-line failover relay and terminal power

✔ 4 or 8 simultaneous low-bandwidth voice or T.38 fax calls

✔ Active QoS access router

✔ SIPv2, H.323v4, and MGCP/IUA

✔ Triple-play capable with IGMP v2/v3 snooping and proxy

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

Operating Environment

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

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

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

Software options (ordered separately)
SNSW-VPN1: License Key for IPSec VPN (DES, 3DES, AES)
SNSW-QSIG1: License Key for QSIG

Note: Please indicate country specific power cord at time of ordering

* Requires optional license.

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