



# Multiport ISDN VoIP IAD

## SmartNode 4630 Series BRI So Gateway Router

The award-winning 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.

Call Us (USA): +1 301-975-1000 | Call Us (Europe): +41 31 985 2525 | E-mail Sales: [sales@patton.com](mailto:sales@patton.com) | E-mail Support: [support@patton.com](mailto:support@patton.com)

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### Features

- **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, 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



### SmartNode™ Awards

- [2012 Internet Telephony Product of the Year : SmartNode™ 4670](#)
- [2012 Internet Telephony Excellence Award: VoIP Gateways & Routers](#)

- *2011 Internet Telephony Product of the Year: SmartNode™ 5400*
- *2010 Internet Telephony Product of the Year: SmartNode™ 5400*
- *2009 Internet Telephony Product of the Year: SmartNode™ 4400 Series*
- *2009 Internet Telephony Excellence Award: SmartNode™ 4630 Series*
- *2008 Internet Telephony Product of the Year: SmartNode™ 4960*
- *2007 Unified Communications Product of the Year: SmartNode™ 4650 G.SHDSL*
- *2007 Internet Telephony Product of the Year: Model S-DTA*
- *2007 Internet Telephony Excellence Award: Model 4562*
- *2006 Internet Telephony Product of the Year: SmartNode™ 4960*
- *2005 Internet Telephony Product of the Year: SmartNode™ 4630 Series*

## Overview

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.

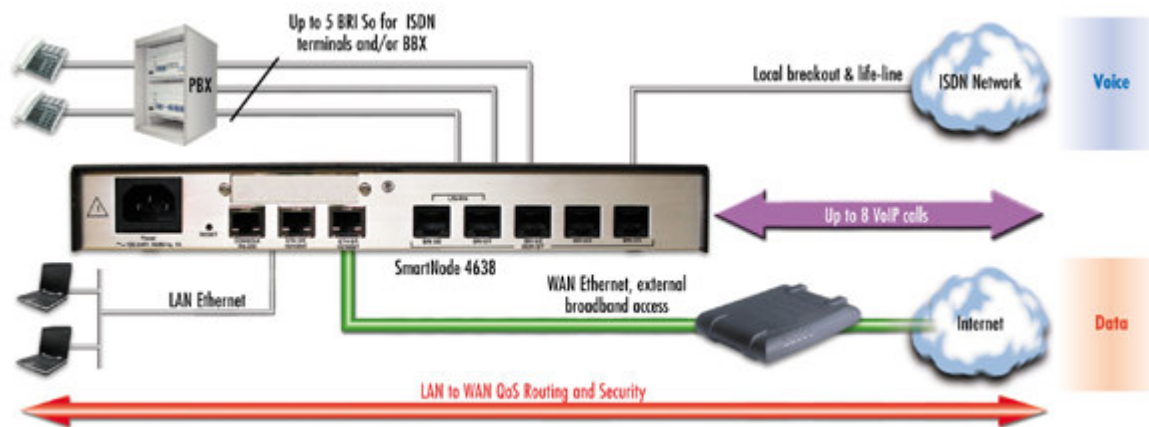
Like every SmartNode, the 4630 Series models are state-of-the-art VoIP gateways that also provide complete access routing and IP security features. Use the SmartNode as CPE or access router on broadband access, and you can benefit from industry leading Quality of Service (QoS) features ensuring a voice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

## Applications

### **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

<b>Voice Signaling</b>	SIPv2 H.323v4 SIP call transfer, redirect Overlap or en-bloc dialing DTMF in-band, out-of-band Configurable tonesn
<b>Call Routing &amp; Services</b>	Regular expression number matching Regular expression number manipulation Least Cost Routing Number blocking Short-Dialing Digit collection Distribution- and Hunt- Groups
<b>ISDN</b>	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*
<b>Voice Processing</b>	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
<b>IP Quality of Service</b>	Voice priority, DownStreamQoS Traffic Management, shaping policing IEEE 802.1p, IEEE 802.1Q, 4096 VLANs (Tag insertion/deletion), TOS, DiffServ Labeling
	Two 10/100bT Ethernet ports Auto-MDIX DHCP Client PPPoE Client (multi-session) IP Multi-Netting, VLAN, Secondary IP

<b>Connectivity</b>	IPv4, IPv6, ICMP Dynamic and static NAT and NAPT ACL Firewall DNS, DynDNS DHCP Server SNTP Client Optional IPSec VPN (DES, 3DES, AES)
<b>Management</b>	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
<b>Power &amp; Packaging</b>	Desktop metal chassis Dimension: 280/39/157 mm (W/H/D) Weight: < 600g Power Consumption < 10W
<b>Operating Environment</b>	Operating temperature: 32 - 104°F (0 - 40°C) Operating humidity: up to 90% , non condensing
<b>Compliance</b>	FCC Part 15 Class A (US EMC) CE per RTTE 99/5/EC (EMC and LVD) Safety - EN60950 TBR-3 (ISDN BRI/So) IATE

\*Requires optional license.

## Ordering Information

### SmartNode Comparison Charts

#### Model # Description

SN4634/3BIS/EUI Smartnode 3 BRI VoIP GW-Router, Dual Fast Ethernet, 4 VoIP Call, Passthrough Relay; H.323 and SIP, External 100-250VAC 50/60Hz Power.

##### Accessories

INS-KIT-RACKEARS-11/19 Rack mount ears for a 11.5 inch case into a 19 inch rack space (For SN5400, SN4960, SN4950, SN4940, SN4990, SN4980, SN4970, SN4670, SN4660, SN4650, SN4630)

SN4635/3BIS/EUI Smartnode 3 BRI VoIP GW-Router, Dual Fast Ethernet, 4 VoIP Call, Passthrough Relay; H.323 and SIP, External 100-250VAC 50/60Hz Power, High Precision 5ppm clock source.

##### Accessories

INS-KIT-RACKEARS-11/19 Rack mount ears for a 11.5 inch case into a 19 inch rack space (For SN5400, SN4960, SN4950, SN4940, SN4990, SN4980, SN4970, SN4670, SN4660, SN4650, SN4630)

SN4638/5BIS/EUI Smartnode 5 BRI VoIP GW-Router, Dual Fast Ethernet, 8 VoIP Call, Passthrough Relay; H.323 and SIP, External 100-250VAC 50/60Hz Power.

##### Accessories

INS-KIT-RACKEARS-11/19 Rack mount ears for a 11.5 inch case into a 19 inch rack space (For SN5400, SN4960, SN4950, SN4940, SN4990, SN4980, SN4970, SN4670, SN4660, SN4650, SN4630)

SN4639/5BIS/EUI Smartnode 5 BRI VoIP GW-Router, Dual Fast Ethernet, 8 VoIP Call, Passthrough Relay; H.323 and SIP, External 100-250VAC 50/60Hz Power. High Precision 5ppm clock source.

##### Accessories

INS-KIT-RACKEARS-11/19 Rack mount ears for a 11.5 inch case into a 19 inch rack space (For SN5400, SN4960, SN4950, SN4940, SN4990, SN4980, SN4970, SN4670, SN4660, SN4650, SN4630)