

SmartNode™ 4552

The SmartNode™ 4552 is the single-box CPE solution for integrating data access with voice & fax over any broadband access network. Combining two simultaneous voicelfax gateway calls with a feature rich broadband QoS IP Router, the SmartNode 4552 is perfect for the SoHo, SME and ITSP user requiring cost-effective digital voice and data access.

SoHo ISDN So VoIP Gateway Router

SmartNode ToIP Integrated Access Device

The SmartNode 4552 enables integration of ISDN network users into their local phone service, a remote PBX and the data/VPN network through a single tightly integrated access device.

Connecting to the local ISDN Phone as well as the local PSTN port, Patton's SessionRouter™ technology links any standard ISDN telephone or PBX to VoIP while still connecting to legacy PSTN services. Built-in Lifeline support ensures phone connection to the PSTN in the event of failure. Gateway functions use standard CODECs such as G.723 and G.729 as well as industry standard SIP, H.323 and MGCP/IUA to ensure seamless connection and compatibility for all voice services.

Broadband network connectivity integrates with any fixed IP, DHCP or PPPoE service. An integrated 10/100 Ethernet LAN switch, with advanced routing features such as NAT, Firewall/ACL, DynDNS as well as optional IPsec VPN, fulfills the requirements of demanding network users.

Quality of Service (QoS) features complete the offering with advanced voice prioritization and traffic management. Patton's patent-pending DownStreamQoS™ ensures voice without interruptions even over best-effort Internet connections.

For more information, visit us at www.patton.com.

2 Channel VoIP that Works

2-channel VoIP Media Gateway and router with dual ISDN BRI/So ports with NT and TE support.

Transparent Telephony Features

SessionRouter™ with enhanced circuit-switched call routing allows user programmable call handling based on hunt groups, caller/called ID, and time of day. Pass local PSTN call through without packet conversion.

SIP, H.323, and MGCP

All SmartNodes support industry standard call-control signalling with standards-based compatibility

Complete Access Routing

Fast-Ethernet WAN and integrated 4-port 10/100 LAN switch with auto MDI-X. Access router with NAT, Firewall, PPPoE, DHCP, and DynDNS

Quality of Service

Advanced adaptive traffic management and shaping for maximum voice quality. Voice and data prioritization and DownStreamQoS™

Management & Provisioning

Built-in Web based management, SNMP, Command Line Interface and Auto-Provisioning for automated configuration distribution and software upgrades

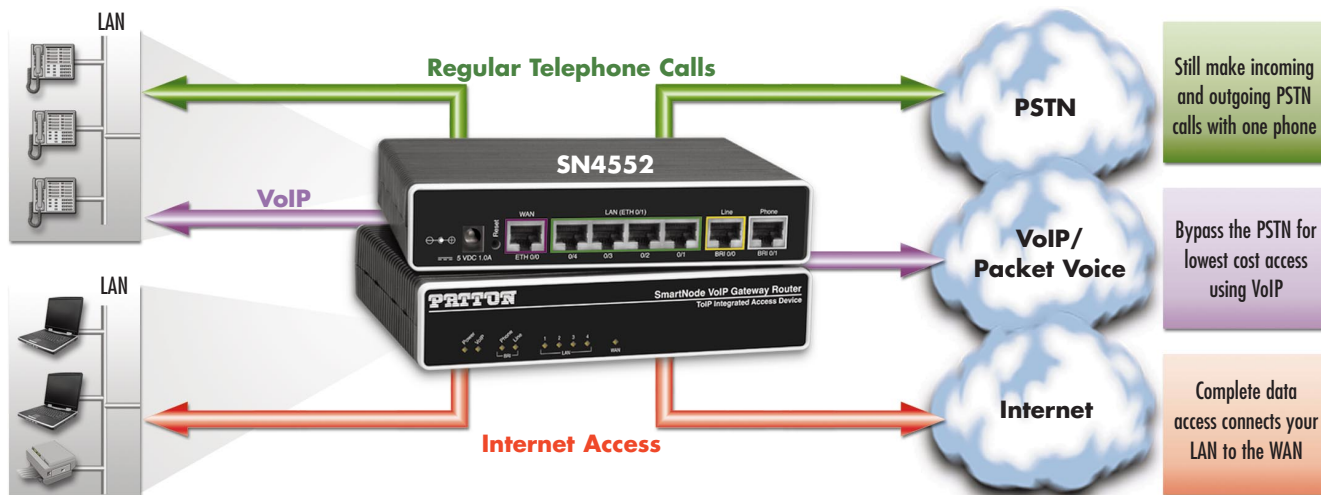


SmartNode 4552

PATTON

- ✓ SessionRouter™ provides life-line support with seamless and transparent voice integration.
- ✓ Complete enterprise router with IPSEC, PPPoE, DHCP, NAT and Firewall features and built-in Ethernet Switch.
- ✓ DownStreamQoS™ Quality of Service guarantees clear voice for all connections.

Network Integration



Specifications

LAN and IP Services

- 4-port 10/100Base-T LAN Switch
- Auto-MDI-X
- IPv4, RIPv2, ICMP
- Dynamic and static NAT and NAPT
- ACL Firewall
- DNS, DynDNS
- DHCP Server
- SNMP Client
- Optional IPSec VPN (DES, 3DES, AES)

WAN Connectivity

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

IP Quality of Service

- Voice priority, DownStreamQoS™
- Traffic Management, shaping policing
- IEEE 802.1p, TOS, DiffServ Labeling
- IEEE 802.1Q, VLAN Tag insertion/deletion 4,096

Management

- Web-based GUI
- Fully documented CLI
- Telnet and HTTP access
- TFTP configuration up- and download
- TFTP firmware upgrade
- SNMPv1 agent, MIB II and enterprise MIB
- Built-in diagnostic tools
- Auto-Provisioning—Configuration and Firmware

ISDN Specification

- 2 ports Euro-ISDN BRI/So RJ-45
- 1 NT port/1 TE port
- DSS-1, Q.921, Q.931
- Point-point and point-multipoint
- Lifeline Bypass Relay TE port to NT port
- Optional QSIG support

Voice Signaling

- SIPv2
- H.323v4
- MGCP/IUA
- SIP call transfer, redirect

- Overlap or en-bloc dialing
- DTMF in-band & out-of-band
- Configurable call progress tones

Fax and Modem Support

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

Call Routing & Services

- Regular expression number matching
- Regular expression number manipulation
- Least Cost Routing
- Number blocking
- Short-Dialing
- Digit collection
- Distribution- and Hunt- Groups
- 2nd call offering

Voice Processing

- G.711µ/A-law
- G.723.1 (5.3/6.3 kbps)
- G.729, G.729a, G.729ab (8 kbps)

- G.726 ADPCM (16, 24, 32, 40 kbps)
- G.168 echo cancellation (25ms)

- Transparent ISDN data
- Silence suppression and comfort noise
- Adaptive and configurable dejitter buffer
- Configurable packet length

Power & Packaging

- Dimensions: 4.2W x 1.5H x 5.0D in.
(10.6W x 3.9H x 12.7D cm)
- Weight: < 15.9 oz (450 g)
- Power Consumption < 4W

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

SN4552/2BIS/EUI 2-port ISDN BRI VoIP Gateway-Router, 10/100Base-T WAN, 4-port 10/100Base-T switch 100–240VAC external power supply

Note: Standard software load includes Routing License and H.323 call-control. SIP is available free of charge. Please request SIP at time of ordering or simply download from our upgrades site at <http://upgrades.patton.com>

Options & Accessories

- PM-BRI-EXT** External S-Bus Phantom-Power Supply 40V DC for Phone only (not required)
- SNSW-VPN1** License Key for IPSec VPN support (DES, 3DES, AES)
- SNSW-QSIG1** License Key for QSIG support

The terms *SmartNode*, *DownStreamQoS* and *SessionRouter* are trademarks of Patton Electronics Co.



Meriedweg 7
CH-3172 Niederwangen
Phone **+41 (31) 985 25 25**
Fax **+41 (31) 985 25 26**
E-mail sales@inalp.com
URL <http://www.inalp.com>



7622 Rickenbacker Drive
Gaithersburg, MD 20879 USA
Phone **+1-301-975-1000**
Fax **+1-301-869-9293**
E-mail sales@patton.com
URL <http://www.patton.com>

07M4552-DS1