

SmartNode[™] DTA Single/Dual-Port ISDN BRI VolP Terminal Adapter

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The SmartNode Digital Terminal Adapter (DTA) brings the advantages of high-quality VoIP to ISDN users. It connects ISDN terminals on one or two BRI/So ports, and converts up to 4 concurrent voice or fax calls to SIP or H.323.

Call Us (USA): +1 301-975-1000 | Call Us (Europe): +41 31 985 2525 | E-mail Sales: sales@patton.com | E-mail Support: support@patton.com | > All > Features > Overview > Applications > Specs > Ordering > Services > Related Info

Features

- Up to Four Simultaneous SIP or T.38 Calls—With 1/2 ISDN So BRI ports and one 10/100Base-TX Ethernet port.
- **Proven Interoperability** Interoperable with all major-brand softswitches and a wide range of Internet telephony providers.
- Comprehensive Signaling & Protocol Support—Supports SIP, H.323, ISDN telephony plus T.38 and SuperG3 FAX over TDM/PSTN and IP/Ethernet services simultaneously.
- **Transparent ISDN Features**—Complex number manipulation and mapping for seamless integration with existing infrastructures, CLIP, CLIR, AOC, PARE, hold, transfer, SIP overlap dialing and much more.
- Instant ISDN to VoIP Connectivity—Provides one or two internally powered So interfaces for up to 8 terminals. Simultaneously converts up to 4 voice and fax calls to VoIP.
- **High Precision Clock (HP models)**—Delivers DECT PBX interoperability with reliable fax and modem performance.
- Management & Provisioning—Built-in Web-based management, SNMP, command line interface and auto-provisioning for automated configuration distribution and software upgrades. RADIUS for call detail records (CDR) and user authentication.
- Supported by SmartNode™ Redirection Service: A free service enabling zero-touch mass deployments for Service Providers and Distributors with auto-provisioning servers (Learn More).

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 DTA enables integration of ISDN network users into a local VoIP phone service, or extends an ISDN line of a PBX to a remote site over IP. It offers a simple end-user configuration interface and connects both to a PBX in point-to-point mode and an So bus in point-multipoint mode.



The SN-DTA enables the connection of ISDN terminals or SOHO PBXs to a VoIP network or Internet Telephony Service. It can connect to ISDN PBXs in point-to-point mode and ISDN Terminals in point-multipoint mode (S-Bus) and offers a feature rich configuration interface.

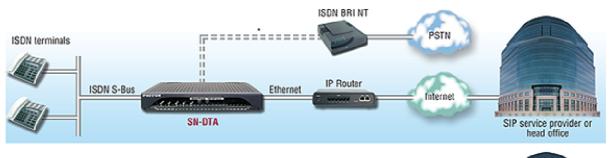
Like every SmartNode the DTA includes intelligent call routing technology with advanced features like number plan adaptations, mappings between ISDN and SIP/H.323, manipulation of call properties through regular expressions, routing calls based on time-of-day or bearer capability criteria and much more.

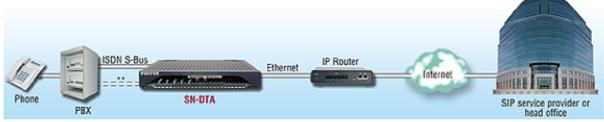
Key ISDN services such as AOC, PARE, CLIP, COLP, etc. are mapped using industry standard methods to SIP and H.323.

The SN-DTA supports SIP overlap dialing (RFC3578) for countries with dynamic dialplans. The integrated ISDN line-power feeds connected terminals in the same way as a legacy ISDN NT to enable a seamless switchover from an ISDN to VoIP access.

Gateway functions use standard CODECs such as G.711, G.723, G.729, and T.38 fax as well as industry standard SIP and H.323 signaling protocols to ensure seamless connection and compatibility for all voice services. Comprehensive quality of service (QoS) features offer traffic classification and tagging options that include TOS, DiffServ and VLAN 802.1p/Q tagging.

Applications





- ISON PSTN fallback with relay (SN-DTA/28/S2W/EUI only)
- ** SN-DTA/28IS4V/EUI only

Specifications

WAN Connectivity 10/100Base-T Ethernet LAN • Auto- MDI-X • DHCP Client • PPPoE Client

(multi-session) • SNTP • IP Multinetting • VLAN

IP Quality of Service IEEE 802.1p, TOS, DiffServ Labeling • IEEE 802.1Q, VLAN Tag

insertion/deletion (4,096 VLANs)

Management Web-based GUI • Fully documented CLI • Telnet and HTTP access •

TFTP configuration up- and download • TFTP/HTTP firmware upgrade • SNMPv1 agent, MIB II and enterprise MIB • Built-in diagnostic tools • Auto-Provisioning—Configuration and Firmware, Syslog, RADIUS

Fax and Modem

Support

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

ISDN Specification 1/2 port Euro-ISDN BRI/So RJ-45, NT/TE • DSS-1, Q.921, Q.931 • Point-

to-point & point-to-multipoint • Line power for ISDN terminals , high

precision clock option (HP models)

Voice Signaling SIPv2 • H.323v4 • SIP call transfer, redirect • Overlap or en-bloc dialing •

DTMF in-band & out-of-band • Configurable call progress tones • CLIP •

CLIR • AOC • PARE

Call Routing & Services

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

Voice Processing G.711

• 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 (25 ms) •

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

Power Consumption < 4W

Temperature

0 to 40 °C (32 to 104 °F)

Humidity Humidity: Up to 90% (non condensing)

Dimensions 20.8W x 3.4H x 16.5D cm (8.2W x 1.3H x 6.5D in.)

Weight < 450 g (15.9 oz)

Compliance FCC Part 15 Class B (US EMC) • CE per RTTE 99/5/EC (EMC and

LVD) • Safety EN60950 • TBR-3 (ISDN BRI/So)

Ordering Information

SmartNode Comparison Charts

Model # Description SN-DTA/1BIS2V/EUI SmartNode ISDN BRI VoIP Terminal Adapter, 1x BRI/So NT with phantom power, 2 voice/fax calls, 1x 10/100 Ethernet, external UI power (100–240 VAC), SN-DTA/2BIS4V/EUI SmartNode ISDN BRI VoIP Terminal Adapter, 2x BRI/So (1xNT, 1xTE) with fallback relay and phantom power on NT port, 2 voice/fax calls, 1x 10/100 Ethernet, external UI power (100–240 VAC), 1 year warranty. SN-DTA/2BIS4V/EUI ISDN BRI VoIP Terminal Adapter, 2x BRI/So NT with phantom power, 4 voice/fax calls, 1x 10/100 Ethernet, external UI power (100–240 VAC), 1 year warranty. SN-DTA/2BIS4VHP/EUI ISDN BRI VoIP Terminal Adapter, 2x BRI/So NT with phantom power, high precision clock source, 4 voice/fax calls, 1x 10/100 Ethernet, external UI power (100–240 VAC), 1 year warranty.