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.

Visit [www.patton.com](http://www.patton.com) for more information.
**Typical Application**

- ISDN terminals
- ISDN S-Bus
- PBX
- IP Router
- Ethernet
- Internet
- PSTN
- SIP service provider or head office

**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

**Management**
- Web-based GUI
- Fully documented CLI
- Telnet and HTTP access
- TFTP configuration upload/download
- 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
- Overlay 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

**Operating Temperature**
- 0 to 40°C (32 to 104°F)

**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)

**Humidity**
- Up to 90%, non condensing

**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**

- **SN-DTA/1BIS2/EUI**: SmartNode™ 1x 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), 1 year warranty
- **SN-DTA/2BIS2/EUI**: SmartNode™ 2x 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/2BIS4/EUI**: SmartNode™ 2x 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**: SmartNode™ 2x 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

*Specifications subject to change without notice.*