

# Patton SmartNode SN4950/4E15V/EUI 4 T1/E1/PRI 15 VoIP Channels Gateway



Product Name: Patton SmartNode SN4950/4E15V/EUI 4 T1/E1/PRI 15 VoIP Channels Gateway

Manufacturer: Patton Inlap

Model Number: SN4950/4E15V/EUI

Please Note: The Patton SmartNode SN4950 range has been discontinued. For an alternative, we highly recommend the Patton SmartNode SN4980 Range.

Patton SmartNode Hi-Cap 4 T1/E1/PRI VoIP IAD, 2x GigEthernet, 15 VoIP Channels; field upgradeable to a max of 60 Channels, External UI Power  
Connect legacy PBX systems to state-of-the-art IP telephony. Combining a VoIP Gateway with an IP Router, the SmartNode® 4950 adds QoS and VPN security, making it the ideal solution for VoIP and Unified Communications.

- Up to 120 VoIP calls - with up to four T1/E1/PRI ports and dual Gigabit Ethernet ports.
- Unified Communications Agent® - Provides any-to-any multi-path switching with VoIP and data survivability, VoIP-over-VPN security with AES/DES strong encryption, Internet Key Exchange (IKE), and SIP Registrar.
- Secure Toll-Quality - VOIP Patton's DownStream QoS® and Voice-over-VPN with adaptive traffic management and shaping for maximum voice quality and secure voice communication.
- Transparent Telephony Features - Complex number manipulation and mapping for seamless integration with existing infrastructures, CLIP, CLIR, hold, transfer and much more.
- G.SHDSL.bis Broadband Access - Optional 4-wire 11.4 Mbps G.SHDSL.bis WAN interface.
- Optional High Precision Clock - Delivers DECT PBX interoperability with reliable fax performance.

As enterprises move toward Unified Communications, the SmartNode® 4950 offers a smooth transition to IP telephony by connecting your traditional phone equipment to next-generation VoIP networks and services. Preserve your investment in legacy phone equipment while taking the next step toward Unified Communications. Least-cost call routing in Patton's proven SmartNode® VoIP solutions optimizes monthly expenses while flexible dialed-numbering plans maintain established business processes. The Unified Communications Agent® (UCA) provides any-to-any multi-path switching (simultaneous SIP, H.323, ISDN, and POTS calls with routing and conversion between TDM/PSTN and IP/Ethernet networks plus T.38 and Super G3 FAX) combined with dial-backup and IP-link redundancy for VoIP and data survivability. Provide VoIP-over-VPN security with voice encryption via IPsec with AES/DES strong encryption and automated keying via Internet Key Exchange (IKE), plus SIP Registrar for presence/reachability. Advanced router functionality includes DownStream QoS®, delivering the clear advantage of secure, uninterrupted voice-and-data communication. Connect to any switch, PBX or data network with up to four T1/E1/PRI ports for up to 120 simultaneous calls using SIP, T1, E1 or PRI signaling. Like every SmartNode, the SN4950 supports all the industry-standard CODECs, delivering toll-quality voice on every call. Ensure business continuity. Combining PSTN breakout with IP-link redundancy, SmartNode® ensures voice-and-data survivability for reliable enterprise-class communications. Additional options include Patton's unique high-precision clock enabling first-line IP telephony services in demanding ISDN and DECT environments with reliable FAX and modem performance. The SN4950 also offers optional built-in 11.4 Mbps broadband access via 4-wire G.SHDSL.bis that reduces hardware costs, simplifies network architecture and streamlines service and deployment. Application Diagram Convert Legacy PBX to VoIP

Patton SmartNode SN4950/4E15V/EUI 4 T1/E1/PRI Technical Specifications

# Patton SmartNode SN4950/4E15V/EUI 4 T1/E1/PRI 15 VoIP Channels Gateway

## Voice Connectivity

- Up to four software selectable T1/E1/PRI ports (NE/TE)
- Signaling support (ISDN DSS-1, NI-2, Q.SIG, CAS Robbed bitloop and ground start, E&M, immediate, wink, double wink)
- SIPv2 & MGCP/IUA, H.323v4
- ISDN AOC/ECT
- ISDN speech, audio & data (Fax Gr 4, UDI 64, RDI64)
- ISDN supplementary services

## Broadband Access

- 4-wire G.SHDSL ITU-T G991.2, Annex A, B, F, G
- Up to 11.4 Mbps
- PPoE
- 8PVCs, each UBR, CBR or VBR-rt selectable
- I.610 OAM F4/F5 support
- G.994.1 (G.hs)

## Voice Processing

- Codec G.711 a-law/mu-law, G.723, G.729ab, G.726, G727, T.38 fax relay (9.6 k, 14.4 k)
- G.711 transparent fax and bypass
- 128 ms echo cancellation

## Call Routing and Services

- Regular expression call routing and manipulation
- number blocking
- short-dialing
- digit collection, distribution and hunt groups

## Data Interfaces

- Dual 10/100/1000 TX Ethernet Ports
- Autosensing
- Auto-MDI
- Full-duplex

## IP Routing

- Complete IP access router
- DHCP Client & Server
- Packet fragmentation
- Static firewall, NAT, NAT RFC 1631 access control lists
- DMZ port

## IP Quality of Service

- Voice priority
- DownStreamQoS&trade;
- Traffic management, shaping policing
- IEEE802.1p, TOS, DiffServ labeling

# Patton SmartNode SN4950/4E15V/EUI 4 T1/E1/PRI 15 VoIP Channels Gateway

- IEEE802.1Q, VLAN tag insertion/deletion 4,096

## Management

- Web/HTTP, CLI with local console & remote Telnet access
- TFTP configuration & firmware loading
- SNMP MIB II and product MIB
- Secure autoprovisioning for firmware & unit/subscriber configuration
- Built-in diagnostic tools (trace, debug, call generator)

## Desktop metal chassis

- Dimensions: 11.0W x 1.5H x 7.0D in.(28.0W x 3.9H x 18.0D cm)
- Weight: < 30 oz (850g)
- Internal Power: 100-240VAC (50/60 Hz)
- Power Consumption: < 15W

## Operating Environment

- Operating temperature: 32 to 104deg; F (0 to 40deg;C)
- Operating humidity: up to 90%, non-condensing

## Compliance

- EMC: EN55022 and EN5502
- Safety: EN60950
- CE
- FCC Part 15 Class A; Part68; CS-03

## Series

SN4940

SN4950

SN4960

## E1/T1 VoIP Gateway

YES

YES

YES

## IP QoS Router

NO

YES

YES

## Session Boarder Controler

NO

# Patton SmartNode SN4950/4E15V/EUI 4 T1/E1/PRI 15 VoIP Channels Gateway

NO  
YES

## Ethernet Ports

1 x 1GE  
2 x 1GE  
2 x 1GE

## E1/T1 Ports

Available with 1 or 4 E1/T1 ports/1E or /4E models

## WAN Interface

NO  
Available with 4-wire G.SHDSL/2GS models

## Nbr of VoiP channels

Available with 15-120 channels /15V to /120V models

## VPN

Optional License SNSW-VPN2

## SIP Registrar

3 Registrations included. Optional license SNSW-REG

## Failover Relay

Available on demand with /VR models

**Please Enquire**

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