Product Name: Patton SmartNode SN4950/4E30V/EUI 4 T1/E1/PRI 30 VoIP Channels Gateway
Manufacturer: Patton Inalp
Model Number: SN4950/4E30V/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, 30 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 SN4950/4E30V/EUI 4 T1/E1/PRI Technical Specifications

Voice Connectivity

• Up to four software selectable T1/E1/PRI ports (NE/TE)
• Signaling support (ISDNDSS-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, NAPT RFC 1631 access control lists
• DMZ port

IP Quality of Service

• Voice priority
• DownStreamQoS™
• Traffic management, shaping policing
• IEEE802.1p, TOS, DiffServ labeling

• 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 104° F (0 to 40°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

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