Analog VoIP IADs

SmartNode SN4900 Analog VoIP Gateway | 12 -32 FXS ports for up to 32 phone or fax calls

The SmartNode™ 4900 Series IpChannelBank™ Multi-Port FXS/FXO Analog VoIP IAD with dual Ethernet ports is the perfect VoIP Integrated Access Device for applications requiring 12 to 32 concurrent analog voice/fax calls.

Overview

The SmartNode 4900 Series IpChannel Bank is the perfect business solution for applications requiring 12 to 32 concurrent analog voice/fax calls. The IpChannel Bank transforms any PBX system, analog call-center application, or ISP MDU service into a state-of-the-art packet-voice system without requiring costly equipment replacement or upgrades.

There are several models in the SN4900 Series - ranging from 12 to 32 FXS or FXO ports (look for the "JO" letters in the model code for FXO ports, and the "JS" letters for FXS ports). Also available are different WAN interface options: V.35, X.21, T1, E1, ADSL, G.SHDSL.

The SN4900 Series supports key industry-standard VoIP signaling protocols such as SIP, H.323, and T.38 Fax Relay--plus fax-bypass and modem-bypass. This ensures interoperability with the leading soft switches and VoIP services.

Built-in Quality of Service (QoS) features include voice prioritization and traffic management via configurable service-policy profiles. Patton's advanced DownStreamQoS ensures clear, uninterrupted voice--even over best-effort networks such as the Internet. Packet classification using 802.1p, TOS, and DiffServ makes integration with existing managed QoS networks easy.

Create custom security profiles for a comprehensive security environment. IPSec in the SN4900 Series delivers data integrity, authentication, anti-replay and data confidentiality. Firewall capabilities include Access Control Lists (ACLs), IP-address and port filtering, protection against Denial of Service (DoS) attacks, and use of second Ethernet port as DMZ.

Offering easy setup, reliable operation, and third-party interoperability on a proven platform, the SN4900 Series IpChannel Bank sits at the core of cost-effective business solutions. The investment protection you need for the future is here today.
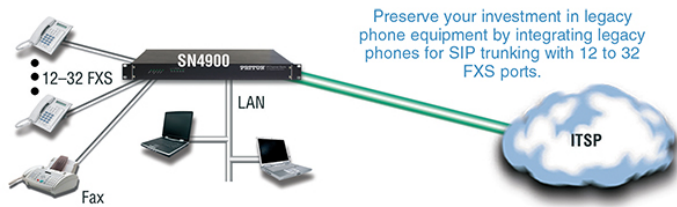
Features

- **12, 16, 24 or 32 FXS or FXO ports**—Simultaneous voice or fax calls on all ports. Advanced local call switching.
- **Full SIP and T.38 support**—Supports the complete range of industry standard VoIP: SIP, H.323, T.38 fax, fax and modem bypass, DTMF relay. Codecs G.729, G.723 etc.
- **Secure Toll-Quality VoIP**—DownStreamQoS and Voice-over-VPN with adaptive traffic management and shaping for maximum voice quality and secure voice communication.
- **Complete Access Routing**—Two 10/100 Ethernet ports with auto MDI-X. Access router with NAT, Firewall, PPPoE, DHCP, DynDNS, multiple VLANs & VPN with IPSec*
- **Optional Integrated WAN uplink**—Choose from V.35, X.21, T1/E1, ADSL or G.SHDSL data interfaces in addition to the two Ethernet ports.
- **Outstanding Interoperability**—Interoperable for voice and T.38 fax with leading SIP service providers, soft-switch vendors and Asterisk™ IP-PBX

Applications

Protect your investment—integrate analog equipment

Legacy is not bad! While VoIP offers distinct advantages in almost every aspect of communications, in many cases it is appropriate to integrate legacy equipment into a VoIP system rather than replacing it. **The SN4900 Series is the enabler that protects your investment in analog equipment.** It enables enterprises to extend multiple analog lines from a PBX to a remote location wich existing cabling or phones, taking advantage of a single IP link to transport up to 32 voice calls. The remote location can be a building around the block as well as a partner in another continent.


Preserve your investment in legacy phone equipment by integrating legacy phones for SIP trunking with 12 to 32 FXS ports.

Gain access to another location's phone lines from anywhere in the world with 12 to 32 FXO ports.

For call centers, the SN4900 is the ideal, reliable solution to integrate legacy work desks and cabling into next-generation, VoIP based call center software.

Specifications

Capacity	12, 16, 24, 32 simultaneous VoIP calls

Voice Signaling

- SIPv2 H.323v4 (simultaneously with B2BUA capability)
- SIP call transfer, redirect
- DTMF in-band & out-of-band
- All tones programmable (dial, ringing, busy)

Voice Processing

- CODEC G.711 a-law/mu-law, G.723, G.729ab
- G.726, G.727. T.38 fax relay (9.6 k, 14.4 k)
- G.711 transparent fax and bypass

Call Switching and Services

- Regular expression based call routing and number manipulation
- Number blocking
- Short-dialing
- Digit collection, distribution and hunt groups
- Transparent line extension

FXS Connectivity

- 2-wire Loopstart on 50pin (12 to 24 channels) or 64-pin (32 channels) Telco connector
- Short haul loop 1.1km @3REN
- EuroPOTS (ETSI EG201188)
- Programmable AC impedance, feeding, ring and on-hook voltage
- Caller-ID FSK and ITU V.23/Bell 202 generation

FXO Connectivity

- 2-wire Loopstart on 50pin (12 to 24 channels) or 64-pin (32 channels) Telco connector
- Programmable impedance, ring detection, tone detection, disconnect supervision
- Caller ID detection

Data Services

- Two 10/100 Ethernet ports
- Complete IP access router
- DHCP Client & server
- Packet fragmentation
- Static firewall, NAT, NAPT RFC 1631 access control lists
- DMZ port

Quality of Service

- Voice priority
- DownStreamQoS™
- Traffic management, shaping and policing
- IEEE 802.1p, TOS, DiffServ labeling
- IEEE 802.1Q, VLAN tag insertion/deletion 4,096

Optional WAN interfaces

- X.21/V.35 Frame Relay (8 PVCs); RFC1490, FRF.12 fragmentation; LMI, Q.933D, ANSI 617D, Gang of Four; PPP, PAP, CHAP, LCP, IPCP)
- T1/E1 (ITU-T G.703, ANSI T1.403; & AMI, B8ZS, HDB3)
- ADSL2+ (Annex A, B, I, J, I, M, U-R2)
- G.SHDSL (G.991.2, Annex A, B, F, G, Up to 5.7Mbps, 8 PVCs, QoS)

Management

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

System

- CPU Motorola MPC875 @ 133 MHz
- Memory 32MB SDRAM/8MB Flash

Power

- 100–240 VAC (50/60 Hz)
- Power dissipation: > 22W (60W max, model SN4932/JS/RUI)

Operating Environment

- Operating temperature: 32 - 122°F (0 - 50°C)
- Operating humidity: Up to 90% (non condensing)

Compliance

- EMC compliance: EN55022 and EN55024
- Safety compliance: EN 50950
- CE compliance
- FCC Part 15 Class A
- RoHS

Ordering

SmartNode Comparison Charts

#	Model #	Description	Availability
1	SN4912/JO/R48 + Accessories	SmartNode IpChannelBank 12 FXO VoIP GW-Router, 2x10/100bTX, Redundant 48V DC Power	Special Order
2	SN4912/JO/RUI + Accessories	SmartNode IpChannelBank 12 FXO VoIP GW-Router, 2x10/100bTX, Redundant UI Power	General Availability
3	SN4912/JS/R48 + Accessories	SmartNode IpChannelBank 12 FXS VoIP GW-Router, 2x10/100bTX, Redundant 48V DC power	Special Order
4	SN4912/JS/RUI + Accessories	SmartNode IpChannelBank 12 FXS VoIP GW-Router, 2x10/100bTX, Redundant UI Power	General Availability
5	SN4916/JO/R48 + Accessories	SmartNode IpChannelBank 16 FXO VoIP GW-Router, 2x10/100bTX, Redundant 48VDC Power	Special Order
6	SN4916/JO/RUI + Accessories	SmartNode IpChannelBank 16 FXO VoIP GW-Router, 2x10/100bTX, redundant UI power	General Availability
7	SN4916/JS/R48 + Accessories	SmartNode IpChannelBank 16 FXS VoIP GW-Router, 2x10/100bTX, Redundant 48VDC Power	Special Order
8	SN4916/JS/RUI + Accessories	SmartNode IpChannelBank 16 FXS VoIP GW-Router, 2x10/100bTX, redundant UI power	General Availability
9	SN4924/JO/R48 + Accessories	SmartNode IpChannelBank 24 FXO VoIP GW-Router, 2x10/100bTX, Redundant 48V DC Power	General Availability
10	SN4924/JO/RUI + Accessories	SmartNode IpChannelBank 24 FXO VoIP GW-Router, 2x10/100bTX, H.323 and SIP, Redundant UI Power	General Availability
11	SN4924/JS/R48 + Accessories	SmartNode IpChannelBank 24 FXS VoIP GW-Router, 2x10/100bTX, Redundant 48V DC Power	Special Order
12	SN4924/JS/RUI + Accessories	SmartNode IpChannelBank 24 FXS VoIP GW-Router, 2x10/100bTX, Redundant UI Power	General Availability
13	SN4932/JO/R48 + Accessories	SmartNode IpChannelBank 32 FXO VoIP GW-Router, 2x10/100bTX, Redundant 48V DC Power	Special Order
14	SN4932/JO/RUI + Accessories	SmartNode IpChannelBank 32 FXO VoIP GW-Router, 2x10/100bTX, Redundant UI Power	General Availability
15	SN4932/JS/R48 + Accessories	SmartNode IpChannelBank 32 FXS VoIP GW-Router, 2x10/100bTX, Redundant 48V DC Power	Special Order
16	SN4932/JS/RUI + Accessories	SmartNode IpChannelBank 32 FXS VoIP GW-Router, 2x10/100bTX, Redundant UI Power	General Availability

Item Number	Item Description	Price
SVC-SmartCare-BH (/support/support.asp)	Premium Support for Business Hours	Contact us (/howtobuy/) for availability and pricing.
SVC-SmartCare-24/7 (/support/support.asp)	Premium Support, 24 x 7 Coverage	Contact us (/howtobuy/) for availability and pricing.
SVC-SmartAssist-BH (/support/support-professional.asp)	Business Hour Support Services	Contact us (/howtobuy/) for availability and pricing.

SVC-SmartAssist-AH (/support/support-professional.asp)	After Hours Support Services	Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR1 (/support/support-warranty.asp)	1 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR2 (/support/support-warranty.asp)	2 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR3 (/support/support-warranty.asp)	3 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR4 (/support/support-warranty.asp)	4 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR5 (/support/support-warranty.asp)	5 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR2 (/support/support-warranty.asp)	2 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR3 (/support/support-warranty.asp)	3 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR4 (/support/support-warranty.asp)	4 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR5 (/support/support-warranty.asp)	5 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-NETENG-HOUR (/support/support-professional.asp)	Network technician hour rate for pre-config services, after hours support, etc.	Contact us (/howtobuy/) for availability and pricing.

Links

Software Comparison (/products/smartnode_software.asp)

Related Products

SmartNode 4300 Analog VoIP Gateway (/products/product_detail.asp?id=423)	IpChannelBank Analog VoIP Gateway | 16, 24 or 32 FXS or FXO ports
SmartNode 4400 IpChannelBank Analog VoIP Router (/products/product_detail.asp?id=406)	Low-Cost IpChannelBank Analog VoIP Router | 12 to 32 FXS or FXO ports

Certifications

Patton Devices Not Vulnerable to Meltdown and Spectre Side-Channels Attacks (/certifications/Patton-Meltdown-Spectre-Statement.pdf)	January 4, 2018
Declaration of Conformity - SN43xx/yz/w, SN44xx/yz/w SmartNode VoIP IAD, Channel Bank (/certifications/13239D1-001E.pdf)	February 1, 2016
Metaswitch Interoperability Partner Certificate (/certifications/metaswitch-interop-partner-cert.pdf)	September 18, 2015
Unify OpenScape Technology Connectivity Certification for SmartNode Products (/certifications/Unify-OpenScape-Technology_Connectivity_Certification_1.pdf)	August 13, 2015
Letter of Validation - SmartNode Trinity 3.X & BroadWorks 20.0 / 20.sp1 (/certifications/BroadSoftValidationAnnouncement-Patton-SmartNode-Trinity.pdf)	April 16, 2015
Declaration of Conformity - SmartNode 49x0 / SmartNode 49x1 / IPLink Model 2884 / IPLink Model 2888 / SmartNode 5400 (/certifications/13223D1-001F.pdf)	December 31, 2012
Declaration of Conformity - SN49xx/yz/w SmartNode IP Channel Bank (/certifications/13217D1-001C.pdf)	December 31, 2012

Data Sheets

Cloud Services Plan Datasheet (/datasheet/CLOUDSP_datasheet.pdf)	April 9, 2019
Cloud Services Plan Datasheet (A4 page size) (/datasheet/CLOUDSP_A4-datasheet.pdf)	April 9, 2019

SmartNode 4900 Datasheet (A4 page size) (/datasheet/SN4900-A4_datasheet.pdf)	May 12, 2016
End of Life Notice - SmartNode 2GS WAN interfaces (/datasheet/EOL_Notice_G SHDSL_2016-04-15-1.pdf)	April 13, 2016
Patton Product Life Cycle Color Codes (/datasheet/Life-Cycle-Availability-Codes.pdf)	April 24, 2015

Product & Solution Guides

SmartNode Product Line Overview (/guides/07SNPLO-OV_50000010.pdf)	August 25, 2020
Vodia IP Solutions Overview (/guides/50000024_VODIA-SOV.pdf)	June 25, 2019
How to migrate voice services smoothly over NBN (/guides/07MVSNBN-SOL.pdf)	October 31, 2018
CPE Products & Solutions for BroadSoft-Based Communications Services (/guides/07CPSB-PG.pdf)	June 29, 2018
SmartNode Integrated Access Device Product and Solutions Guide (/guides/SmartNode-Integrated-Access-Device-Product-and-Solutions-Guide.PDF)	April 2, 2018
Gartner Group Market Guide for Enterprise SBC (/guides/gartner-esbc-market-guide.pdf)	December 29, 2017
VoIP Glossary - VoIP Terms and Definitions (/guides/07VOIPGLOSS-REF.pdf)	August 15, 2017
Barracuda Quick Reference Guide for SmartNode Gateways (/guides/Barracuda-Patton-Gateways-Quick-Reference.pdf)	August 28, 2015
3CX IP Solutions Overview (/guides/073CX-SOV.pdf)	January 23, 2013
IP Paging/Intercom/Access Control with Microsoft Lync Solution Overview (/guides/07IPP-SOV.pdf)	December 18, 2012
The Gateway to Microsoft Lync (/guides/07GTML-SOV.pdf)	December 18, 2012
Seamless Internet Access and Survivability for Remote and Maritime Networking Applications (/guides/07BODI_RS_MARNET-SOL.pdf)	November 8, 2012
The Gateway to BroadWorks (/guides/07GTBW-SOV.pdf)	October 12, 2012

Tech Notes

VoIP: What Are FXS & FXO? (/technotes/fxs_fxo.pdf)	April 19, 2016

User Manuals & Configuration Guides

SmartWare R6.9 Software Configuration Guide (/manuals/SmartWare_SCG_r611.pdf)	March 11, 2020
SmartNode 4900 Series IpChannel Bank User Manual (/manuals/SN4900-GSG.pdf)	January 28, 2019
SmartWare R6.8 Software Configuration Guide (/manuals/SmartWare_SCG_r68.pdf)	August 4, 2015
SmartWare R6.7 Software Configuration Guide (/manuals/SmartWare_SCG_r67.pdf)	July 28, 2015
Time Warner Cable Configuration Guide for Patton SmartNode (/manuals/TimeWarnerCableSmartNodeConfigurationGuide.pdf)	April 23, 2015
SmartWare R6.6 Software Configuration Guide (/manuals/07MSWR66_SCG-UM.pdf)	September 6, 2014
SmartWare R6.5 Software Configuration Guide (/manuals/07MSWR65_SCG-UM.pdf)	January 23, 2014
BroadSoft Configuration Guide for SmartNode SmartWare (/manuals/BroadSoft_PartnerConfigGuide_Patton_SmartNode.pdf)	December 2, 2013
SmartWare R6.3 Software Configuration Guide (/manuals/SCG-r63.pdf)	August 5, 2013
SmartWare R6.4 Software Configuration Guide (/manuals/SCG-r64.pdf)	August 5, 2013
SmartNode 4900 Guide, Quick Start (/manuals/SN4900-QS.pdf)	February 9, 2012

White Papers & Success Stories

Voice Network Pathways with Patton SBC/Gateways over Australia's NBN Infrastructure (/whitepapers/07VNPNBN-OV.pdf)	October 31, 2018
A cost-saving All-IP communication solution for Falcone Bauchemie AG (/whitepapers/unify-falcone-success-story.pdf)	October 5, 2017
Die kostensparende All-IP Kommunikationslösung für Falcone Bauchemie AG (/whitepapers/unify-falcone-success-story-DE.pdf)	October 5, 2017
CPE Architecture: When Does All-IP Equal All-in-One? (/info/CPE-Architecture-When-Does-ALL-IP-Equal-All-in-One)	August 23, 2017
eSBCs: Required for Secure, Interoperable Real Time Unified Communications (/articles/eSBCs-Required-for-Secure-Interoperable-Real-Time-Unified-Communications)	July 12, 2017
PATTON Software Release Strategy for Trinity™ OS (/whitepapers/07M-TRINITY-REL-WP.pdf)	September 11, 2015
ISKON Reports Faster Deployment, Troubleshooting, and Lower OpEx with Patton Element Management System (/whitepapers/reality_check_iskon.pdf)	February 9, 2015
Reaching SMBs with IP Telephony and Unified Communications (/articles/Reaching-SMBs-with-IP-Telephony-and-Unified-Communications/)	January 26, 2015
Patton-BroadSoft Auto-Provisioning Solution for SIP Trunks Serving Customer-Chosen IP PBX (/whitepapers/BSFT-auto-prov.pdf)	October 1, 2014
Powered by Patton, ZEOP Launches Business-Class VoIP Service for Reunion Island (/whitepapers/reality_check_zeop.pdf)	May 21, 2014
SBCs - Key Part of the UC Ecosystem (/articles/SBCs-Key-Part-of-the-UC-Ecosystem)	April 29, 2014
What VARs Need to Migrate Customers to UC Telephony ()	April 29, 2014
Patton and SmartConnect Deliver High-Availability Multi-Access Customer Care Solution for Eureka (/whitepapers/reality_check_eureka.pdf)	June 25, 2012
How Patton and Techlan Reti Transported Norbert Dentressangle to Converged IP-Communication (/whitepapers/reality_check_norbertdentressangle.pdf)	May 7, 2012
Patton Deploys Broadvox SIP Trunks Resulting in Partnership and VoIPReady™ Solution (/whitepapers/voipready_case_study.pdf)	January 3, 2012
3CX Phone System Provides the Gas for Leading Turbine Engineering Specialist (/whitepapers/3CX_Agilis_Case_Study.pdf)	February 28, 2011

Software Upgrades

SmartNode 4900 Series (/support/upgrades/index.asp?um=SmartNode 4900 Series)	

SmartNode™ Awards

- *2016 COMMUNICATIONS SOLUTIONS Product of Year (/company/newsrelease.asp?id=2770): SmartNode 5540 Series FXS eSBC-IAD (/products/product_detail.asp?id=541)*
- *2015 INTERNET TELEPHONY Excellence Award (/company/newsrelease.asp?id=2684): Patton Element Management System (/products/product_detail.asp?id=495)*
- *2015 COMMUNICATIONS SOLUTIONS Product of Year (/company/newsrelease.asp?id=2673): SmartNode 5300 eSBC (/products/product_detail.asp?id=502)*
- *2015 INTERNET TELEPHONY Product of the Year (/company/newsrelease.asp?id=2612): SmartNode Open Gateway Appliance (SNOGA) (/products/product_detail.asp?id=512)*
- *2013 Unified Communications Excellence Award (/company/newsrelease.asp?id=2555): SmartNode 4940 VoIP Gateway (/products/product_detail.asp?id=437)*
- *2012 Internet Telephony Product of the Year (/company/newsrelease.asp?id=2376): SmartNode 4670 Hybrid VoIP IAD (/products/product_detail.asp?id=458)*
- *2012 Internet Telephony Excellence Award (/company/newsrelease.asp?id=2341): VoIP Gateways & Routers (/products/product_detail.asp?id=5)*
- *2011 Internet Telephony Product of the Year (/company/newsrelease.asp?id=2047): SmartNode 5400 eSBC (/products/product_detail.asp?id=417)*
- *2010 Internet Telephony Product of the Year (/company/newsrelease.asp?id=1938): SmartNode 5400 eSBC (/products/product_detail.asp?id=417)*
- *2009 Internet Telephony Product of the Year (/company/newsrelease.asp?id=1804): SmartNode 4400 IpChannelBank Analog VoIP Router (/products/product_detail.asp?id=406)*
- *2009 Internet Telephony Excellence Award (/company/newsrelease.asp?id=1736): SmartNode 4630 BRI So Digital VoIP Router (/products/product_detail.asp?id=329)*
- *2008 Internet Telephony Product of the Year (/company/newsrelease.asp?id=1453): SmartNode 4960 eSBC (/products/product_detail.asp?id=354)*
- *2007 Unified Communications Product of the Year (/company/newsrelease.asp?id=1268): SmartNode 4650 Digital G.SHDSL VoIP IAD (/products/product_detail.asp?id=358)*
- *2007 Internet Telephony Product of the Year (/company/newsrelease.asp?id=1148): Model S-DTA (/products/product_detail.asp?id=359)*
- *2007 Internet Telephony Excellence Award (/company/newsrelease.asp?id=1082): Model 4562 (/products/product_detail.asp?id=353)*
- *2006 Internet Telephony Product of the Year (/company/newsrelease.asp?id=996): SmartNode 4960 eSBC (/products/product_detail.asp?id=354)*
- *2005 Internet Telephony Product of the Year (/company/newsrelease.asp?id=850): SmartNode 4630 BRI So Digital VoIP Router (/products/product_detail.asp?id=329)*

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