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Analog VoIP IADs

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



Smart**Nöde**

The SmartNode^m 4900 Series IpChannelBank^m 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 callcenter application, or ISP MDU service into a state-of-the-art packetvoice 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 lpChannel Bank sits at the core of cost-effective business solutions. The investment protection you need for the future is here today.

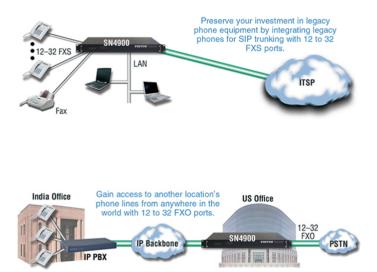
Features

- 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.



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