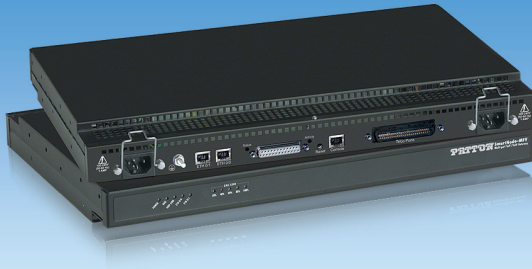


VoIP



IpChannel Bank Multi-Port FXS & FXO Gateway

SmartNode™ 4900 Series

The IpChannel Bank is the perfect VoIP gateway for applications requiring 12 to 32 concurrent analog voice/fax calls within a single redundant solution.

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 and 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 leading IP-PBX systems.

SmartNode™ Awards

- **2010 Internet Telephony Product of the Year:**
SmartNode™ 5400
- **2009 Internet Telephony Product of the Year:**
SmartNode™ 4400 Series
- **2008 Internet Telephony Product of the Year:**
SmartNode™ 4961
- **2007 Internet Telephony Product of the Year:**
SmartNode™ S-DTA
- **2006 Internet Telephony Product of the Year:**
SmartNode™ 4960
- **2005 Internet Telephony Product of the Year:**
SmartNode™ 4630

The SmartNode 4900 is the ideal solution for service providers and enterprises requiring high-density analog connections for converged Internet-Telephony. Call centers, multi-tenant-units and PBX/switch extensions can now access the low-cost benefits of packet voice while WAN, data and VPN features permit direct access the IP network with full upstream and DownStream QoS™.

The SN4900 supports 12 to 32 simultaneous VoIP calls over standard two-wire FXS connections. The analog ports are presented on a single Amphenol telco connector for convenient wiring closet connection. Local LAN connectivity is presented via dual 10/100 Ethernet ports. Traffic can be routed out either port for load-balancing and redundancy.

Dual-redundant power supplies protect against equipment down-time.

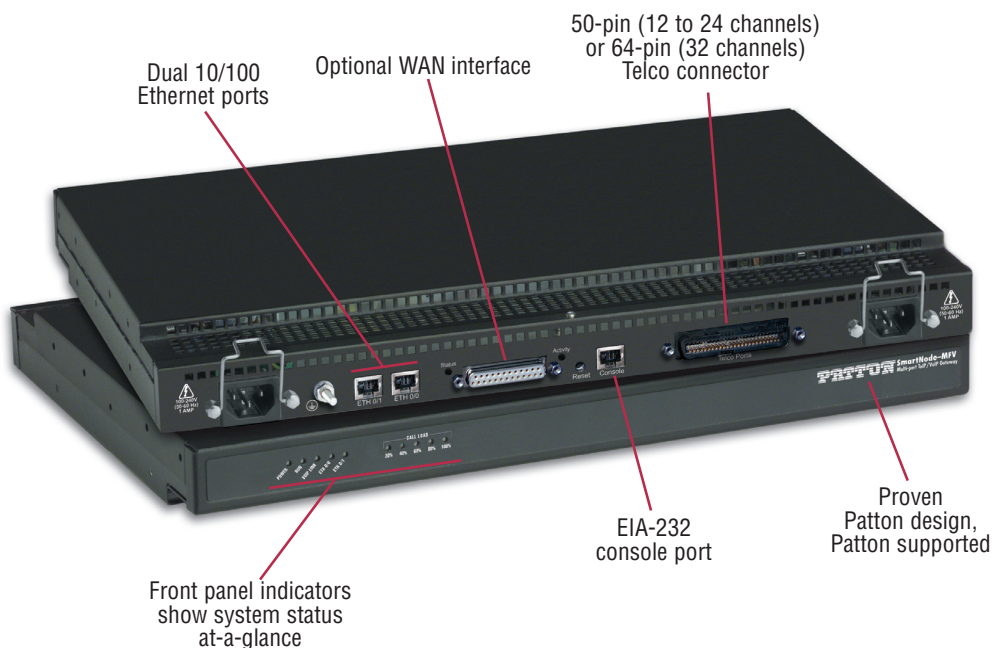
Seamless and secure network integration with fixed IP, DHCP or PPPoE. Complete access routing features include NAT/NAPT, Firewall, DynDNS and the optional IPsec VPN feature license offer secure data.

Optional WAN uplink modules, available in V.35/X.21, T1/E1, and xDSL options, eliminate the need for extra network termination devices and extra cost.

Visit www.patton.com for more information.



*Special Rates Available
Call for Details*



PATTON®
Let's Connect!™

Typical applications



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)

signing 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)

Environment

Temp: 0-50°C
Humidity: 5-80% (non condensing)

Compliance

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

* Specifications subject to change without notice.

** Not applicable on SN4900 FXO models.

Ordering Information

SN4900 IpChannel Bank

FXS version

SN4912/JS/RUI: 12 Port FXS
SN4916/JS/RUI: 16 Port FXS
SN4924/JS/RUI: 24 Port FXS
SN4932/JS/RUI: 32 Port FXS

FXS, WAN Uplink version

SN4912/JSX*/RUI: 12 Port FXS, WAN Uplink

SN4916/JSX*/RUI: 16 Port FXS, WAN Uplink

SN4924/JSX*/RUI: 24 Port FXS, WAN Uplink

SN4932/JSX*/RUI: 32 Port FXS, WAN Uplink

FXO version

SN4912/JO/RUI: 12 Port FXO
SN4916/JO/RUI: 16 Port FXO
SN4924/JO/RUI: 24 Port FXO

SN4932/JO/RUI: 32 Port FXO

FXO, WAN Uplink version

SN4912/JOX*/RUI: 12 Port FXO, WAN Uplink
SN4916/JOX*/RUI: 16 Port FXO, WAN Uplink
SN4924/JOX*/RUI: 24 Port FXO, WAN Uplink
SN4932/JOX*/RUI: 32 Port FXO, WAN Uplink

Options & Accessories

SNSW-VPN1: License Key for IPsec VPN support (DES, 3DES, AES)

10493264-10: 64-Pin Telco to Open-End Cable

10-3096TM50-20: 50-Pin Telco to Open-End Cable

Notes: 48VDC or split 48VDC/UI power options available.

*X = Interface options: C=V.35, D=X.21, K=E1, T=T1, Fi=Fiber, AYx=ADSL, G=G.SHDSL

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Let's Connect!™

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