IpChannel Bank Multi-Port FXS & FXO Gateway

Model 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, softswitch vendors and leading IP-PBX systems.

Why SmartNode?
- *Patton Quality*
- *Made in the USA*
- *Unrivaled Customer Support*
- *FREE Tech Support and Upgrades*

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 DownStreamQoS™.

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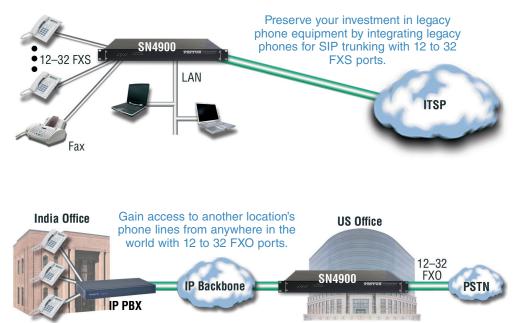
Seamless and secure network integration with fixed IP, DHCP or PPPoE. Complete access routing features include NAT/NAPT, Firewall, DynDNS and the optional IPsec VPN feature license offer secure data.

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/smartnode for more information about the SmartNode 4900.

GET YOUR ADVANCE SHIP 5 YEARS ENHANCED WARRANTY

Special Rates Available Call for Details

Typical Applications

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

12–32 FXS · SN4900 PATTON · LAN · ITSP · Fax

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

India Office · IP PBX · IP Backbone · SN4900 PATTON · 12–32 FXO · US Office · PSTN

PATTON® *Let's Connect!*™

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)

Environment
Temp: 0–50°C
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 Info

Obtain ordering info for this product by using the QR code at right or by contacting:
- web: **http://www.patton.com/products/product_detail.asp?id=467&tab=Ordering**
- email: **sales@patton.com**
- tel: **+1 301.975.1000**

* Specifications subject to change without notice.

** Not applicable on SN4900 FXO models.