

# IpChannel Bank Multi-Port FXS Gateway

## SmartNode™ 4300 Series



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

### Up to 32 FXS

*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.*

### Outstanding Interoperability

*Interoperable for voice and T.38 fax with leading SIP service providers, soft-switch vendors and Asterisk™ IP-PBX.*

### 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 4300 Series IpChannel Bank is the perfect business solution for applications requiring up 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.

The models in the SN4300 Series are available with up to 32 FXS ports. The SN4300 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.

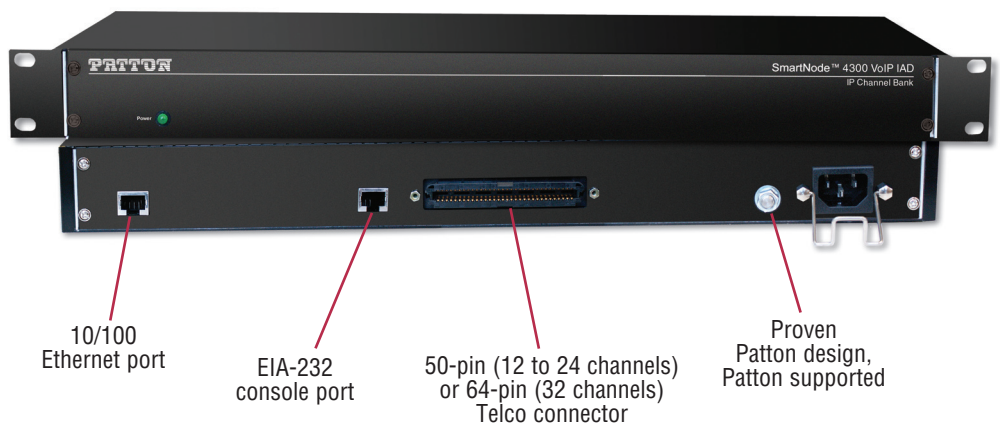
The SN4300 runs SmartWare™, the award-winning VoIP real-time operating system used in all SmartNode products. The versatile

VoIP gateway software enables the SN4300 to talk with up to 8 VoIP servers using SIP and H.232 protocols.

With Telephony-over-IP (ToIP) call switching, calls can automatically select the least-cost-route while providing flexible numbering plans and end-to-end feature transparency. PPPoE, DHCP, and VLAN offers universal IP connectivity and optional IPsec VPN with AES/3DES guarantees secure voice over the public network.

Offering easy setup, reliable operation, and third-party interoperability on a proven platform, the SN4300 Series IpChannel Bank sits at the core of cost-effective business solutions. The investment protection you need for the future is here today.

Visit [www.patton.com](http://www.patton.com) for more information.

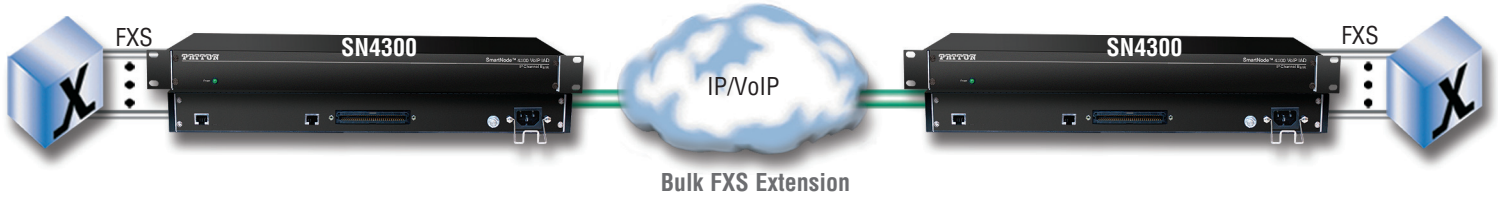


## Protect your investment—integrate analog equipment

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 SN4300 Series is the enabler to protect your investment in the analog equipment.** It enables enterprises to extend multiple analog lines from a PBX to a remote location with 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.

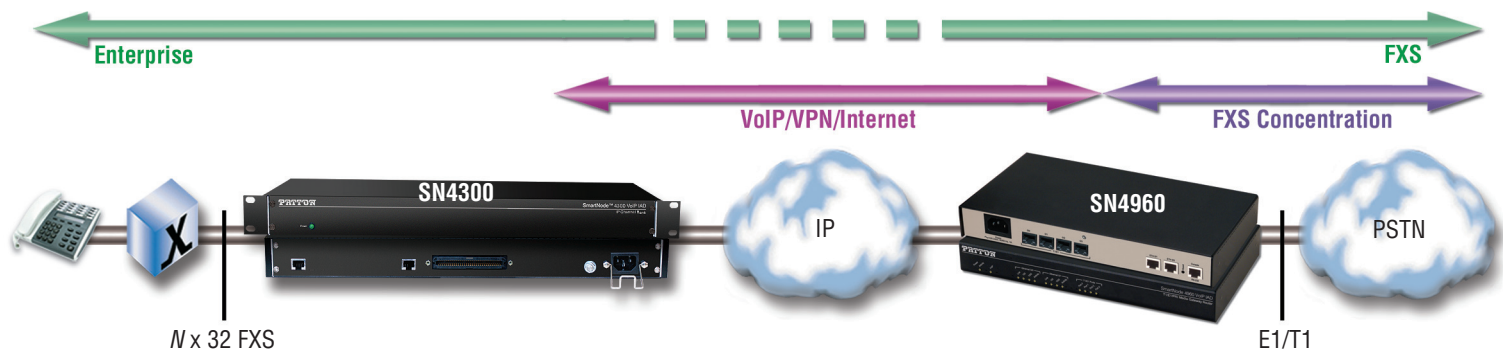
For call centers, the SN4300 is the ideal, reliable solution to integrate legacy work desks and cabling into next-generation, VoIP based call center software.



## Enterprise FXS concentration and extension over IP and T1/E1

The SN4300 Series IpChannel Bank can be used with a T1/E1 gateway to extend a T1 or E1 line over IP and split it into FXS ports—providing operators and enterprise network administrators with a

simple and cost effective option to provide a large number of FXS ports in a remote location.



## Specifications\*

### Capacity

16, 24, 32 simultaneous VoIP calls

### Data Services

Onw 10/100 Ethernet port • Complete IP access router • DHCP Client & server • Packet fragmentation • NAT RFC 1631 access control lists

### Quality of Service

DownStreamQoS™ • IEEE 802.1p, TOS, DiffServ labeling • IEEE 802.1Q, VLAN tag insertion/deletion (4096 VLAN IDs, multiple VLAN support

### Management

Web/HTTP, CLI with local console and remote Telnet access • TFTP configuration & firmware loading • SNMP MIB II

and product MIB • Secure autoprovisioning for both firmware and unit/subscriber configuration • Built-in diagnostic tools (trace, debug, call generator)

### FXS Connectivity

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

### 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)

### 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

### Voice Processing

Codec G.711 a-law/mu-law, G.723, G.729ab • G.726, G.727. T.38 fax relay • G.711 transparent fax and bypass

### System

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

### Dimensions

19-in. rack-mount chassis  
48.3W x 4.44H x 30.50D cm

### Weight

4.1 kg

### Power

100–240 VAC (50/60 Hz) • Power dissipation: > 22W (60W max, model SN4432/JS/RUI)

### Temperature

32–104°F (0–40°C)

### Humidity

5–80% (non condensing)

### Compliance

EMC compliance: EN 55022 and EN 55024 • Safety compliance: EN 50950 • CE compliance • FCC Part 15 Class A • RoHS

\* Specifications subject to change without notice.

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