

# IpChannel Bank Multi-Port FXS or FXO Gateway

## SmartNode™ 4300 Series



*The cost-effective Gateway solution to tie in 12 to 32 analog phones, fax or PSTN trunk lines to your IP environment*

### Up to 32 FXS or FXO

*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 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

**T**he SmartNode™ 4300 VoIP Gateway provides 12 to 32 analog FXS or FXO interfaces to connect phones, fax or PSTN trunk lines to your IP-based communications (IP PBX, UC systems and SIP Trunks).

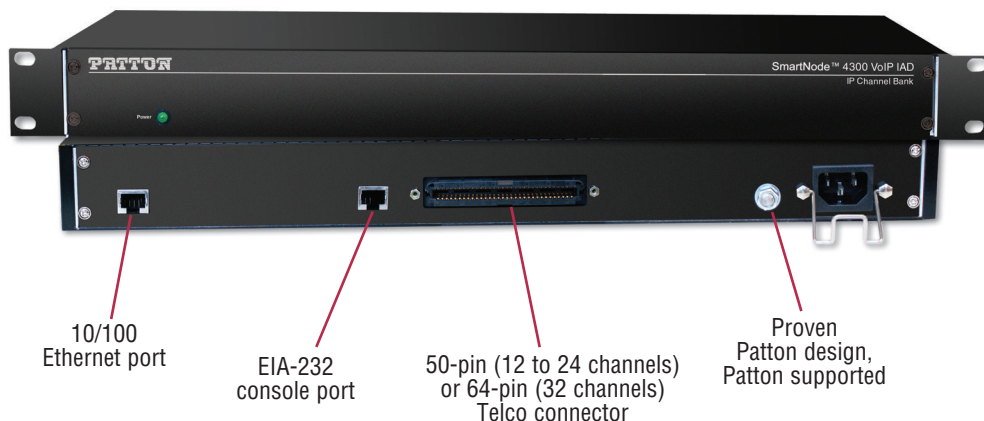
**Like every SmartNode™**, the SN4300 supports every industry-standard CODEC to deliver toll-quality voice on every call. The Unified Communications Agent™ (UCA) provides any-to-any multi-path switching (simultaneous SIP, H.323, ISDN, and POTS calls with routing and conversion between TDM/PSTN and IP/Ethernet networks—plus T.38 and SuperG3 FAX). VoIP-over-VPN with voice encryption provides secure voice and data via IPsec with AES/DES strong encryption and automated keying via Internet Key Exchange (IKE). In addition, advanced call-router functionality

includes least-cost call routing with flexible dialed-number plan support.

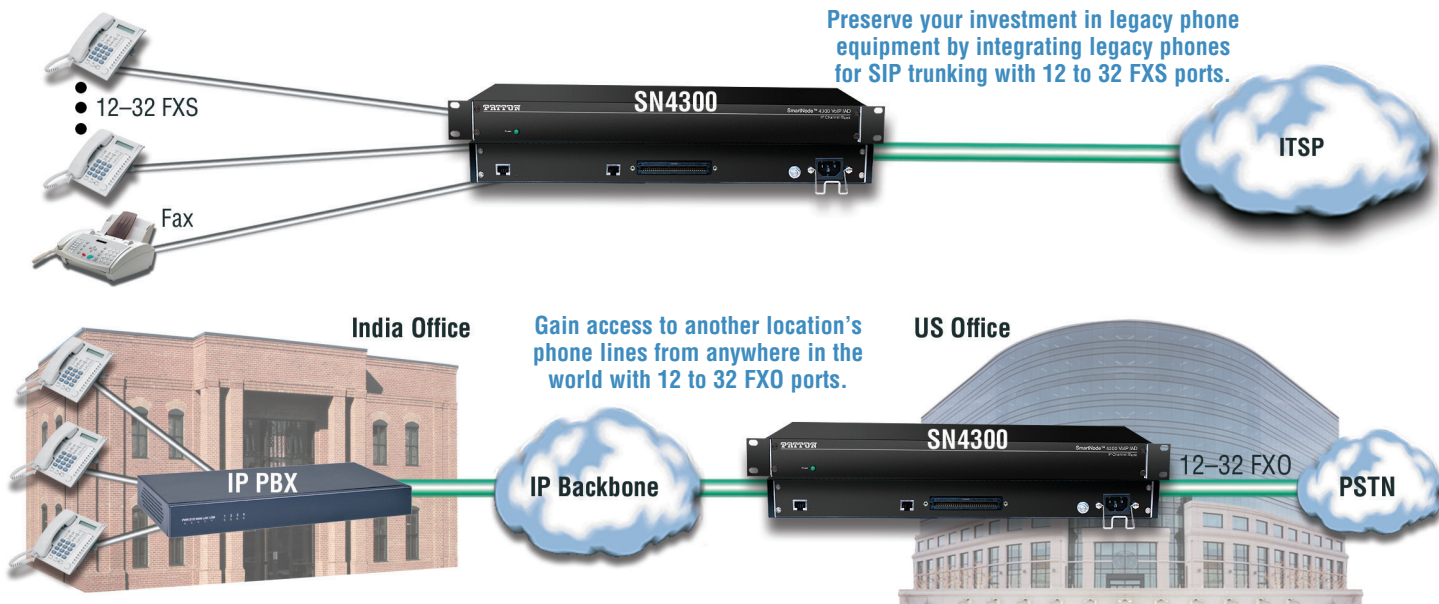
**The SmartNode survivability suite** provides PSTN fallback to ensure business continuity in case the IP network fails. In addition, SmartNode delivers a smooth transition to VoIP with strong number portability support accepting incoming calls from the PSTN throughout the VoIP service provider's number porting process.

**Preserve investments** in legacy phone equipment while taking the next steps toward unified communications with the SN4300 VoIP Gateway. Providing 12 to 32 FXS or FXO interfaces and one 10/100/1000 Ethernet, the SN4300 delivers a reliable, cost-effective solution for the Enterprise.

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



## Typical applications



## Specifications\*

### Capacity

16, 24, 32 simultaneous VoIP calls

### 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

### 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

### 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

up to 90% (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.

## Ordering Info

### SmartNode Multiport VoIP

#### Gateway (GW), Internal UI Power

**SN4312/JO/UI:** FXO VoIP GW, 12 FXO ports (RJ21), 1 x Fast Ethernet. Under *Accessories*, look for this symbol: ✓

**SN4316/JO/UI:** FXO VoIP GW, 16 FXO ports (RJ21), 1 x Fast Ethernet. Under *Accessories*, look for this symbol: ✓

**SN4316/JS/UI:** FXS VoIP GW, 16 FXS ports (RJ21), 1 x Fast Ethernet. Under *Accessories*, look for this symbol: ✓

**SN4324/JO/UI:** FXO VoIP GW, 24 FXO ports (RJ21), 1 x Fast Ethernet. Under *Accessories*, look for this symbol: ✓

**SN4324/JS/UI:** FXS VoIP GW, 24 FXS ports (RJ21), 1 x Fast Ethernet. Under *Accessories*, look for this symbol: ✓

**SN4332/JO/UI:** FXO VoIP GW, 32 FXO ports (RJ21), 1 x Fast Ethernet. Under *Accessories*, look for this symbol: ✓

**SN4332/JS/UI:** FXS VoIP GW, 32 FXS ports (RJ21), 1 x Fast Ethernet. Under *Accessories*, look for this symbol: ✓

### Accessories

**Choose the color-coded symbol (✓) for your model**

**10-3096TM50/16RJ11-12:** 12 FT Cable (50 PIN TELCO-to-16 RJ11) ✓

**10-3096TM50/16RJ45-12:** 12 FT Cable (50 PIN TELCO-to-16 RJ45) ✓

**10-3096TM50/50-12:** 12 FT Cable (50 PIN TELCO-to-50 PIN TELCO) ✓✓

**10-3096TM50-20:** 20 FT Cable (50-pin TELCO-to-25 unterminated) ✓✓

**10-50TELCO/24RJ11-6:** 6 FT Cable (50 PIN TELCO-to-24 RJ11) ✓✓

**10-50TELCO/24RJ45-6:** 6 FT Cable (50 PIN TELCO-to-24 RJ45) ✓✓

**10-493264-10:** 10 FT Cable (64 PIN TELCO-to-32 unterminated) ✓

**PATTON**  
*Let's Connect!*

**Patton Electronics Co.**  
7622 Rickenbacker Drive  
Gaithersburg, Maryland 20879  
USA  
Phone +1 301 975 1000  
Fax +1 301 869 9293  
E-mail [sales@patton.com](mailto:sales@patton.com)  
Web [www.patton.com](http://www.patton.com)

**PE-Inalp Networks Private Ltd**  
Old No. 14 and New No.6,  
Brahadambal Road,  
Nungambakkam High Road  
Chennai: 600 034, India  
Phone +91 44 45490395/6/7  
Fax +91 44 4549.0394  
Email [sales@patton.co.in](mailto:sales@patton.co.in)  
Web [www.patton.co.in](http://www.patton.co.in)

**Patton-Inalp Networks AG**  
Meriedweg 7  
CH-3172 Niederwangen  
Switzerland  
Phone +41 (31) 985 25 25  
Fax +41 (31) 985 25 26  
E-mail [sales@inalp.com](mailto:sales@inalp.com)  
Web [www.inalp.com](http://www.inalp.com)

07MSN4300-DS6

Patton is a registered trademark, and is a trademark of Patton Electronics Company in the United States and other countries.