



IpChannel Bank Multi-Port FXS or FXO Gateway-Router SmartNode[™] 4400 Series

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

12, 16, 24 or 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.

Secure Toll-Quality VolP

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**

Outstanding Interoperability

Interoperable for voice and T.38 fax with leading SIP service providers, soft-switch vendors and Asterisk™ IP-PBX he SmartNode[™] 4400 VoIP Gateway-Router 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).

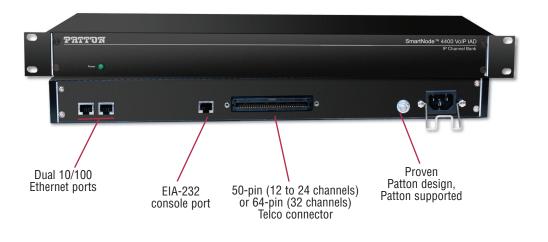
Like every SmartNode[™], the SN4400 supports every industry-standard CODEC to deliver toll-quality voice on every call. The Unified Communications Agent[™] (UCA) provides any-to-any multi-path switching (simultaneous SIP, H.323, ISDN, and POTS calls with routing and conversion between TDM/PSTN and IP/Ethernet 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 combines PSTN fallback, SIP Registrar and IP-link redundancy to ensure business continuity in case the IP network fails. Patton's DownStreamQoS[™] delivers the advantage of clear, uninterrupted voice-and-data communication. 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.

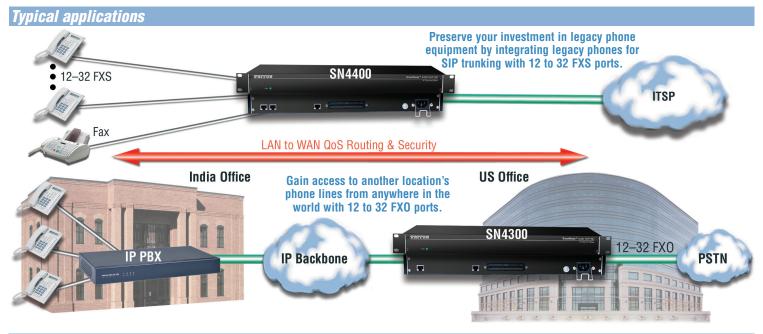
Preserve investments in legacy phone equipment while taking the next steps toward unified communications with the SN4400 VoIP Gateway-Router. Providing 12 to 32 FXS or FXO interfaces and two 10/100/1000 Ethernet, the SN4400 with built-in IP Router delivers secure, prioritized unified communications.

Need a carrier upgrade? The SmartNode 4900 adds a redundant power supply, WAN interfaces, cooling fans and 0–50° C operating temperature.

Visit <u>www.patton.com/smartnode</u> for more information.







Specifications*

Capacity

12, 16, 24, 32 simultaneous VoIP calls

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 (4096 VLAN IDs, mul-

Management

Web/HTTP, CLI with local

FXS Connectivity

* Specifications subject to change without notice.

tiple VLAN support

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)

2-wire Loopstart on 50pin

(12 to 24 channels) or

64pin (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 64pin (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

SN4432/JO/UI: 32 FXO VoIP GW-Router,

2 x 10/100Base-TX, UI Power. Under

Accessories, look for this symbol:

Accessories, look for this symbol:

2 x 10/100Base-TX, UI Power. Under

Accessories, look for this symbol: ✓

Accessories

your model

SN4432/JS/48: 32 FXS VoIP GW-Router,

2 x 10/100Base-TX, 48V DC Power. Under

SN4432/JS/UI: 32 FXS VoIP GW-Router.

Choose the color-coded symbol (\checkmark) for

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

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Voice Processing

CODEC G.711 a-law/mulaw, 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 32MB SDRAM/8MB Flash

Dimensions

19-in. rack-mount chassis 48.3W x 4.44H x 30.5D 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% (noncondensing)

Compliance

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

Ordering Info SmartNode IpChannelBank VolP

Gateway (GW)-Router

SN4412/J0/UI: 12 FXO GW-Router, 2 x 10/100Base-TX, UI Power. Under Accessories, look for this symbol: SN4412/JS/48: 12 FXS GW-Router, 2 x 10/100Base-TX, 48V DC power. Under Accessories, look for this symbol: SN4412/JS/UI: 12 FXS VoIP GW-Router,

2 x 10/100Base-TX, UI Power. Under Accessories, look for this symbol: SN4416/JO/UI: 16 FXO VoIP GW-Router.

2 x 10/100Base-TX, UI Power. Under Accessories, look for this symbol:



07MSN4400-DS7

Patton is a registered trademark and the termsSmartNode, DownStreamQoS, and SessionRouter are trademarks of Patton Electronics Company in the United States and other countries.

SN4416/JS/48: 16 FXS VoIP GW-Router. 2 x 10/100Base-TX, 48VDC Power. Under Accessories, look for this symbol: 🗸 SN4416/JS/UI: 16 FXS VoIP GW-Router, 2 x 10/100Base-TX, UI power. Under Accessories, look for this symbol: 🗸 SN4424/JO/UI: 24 FXO VoIP GW-Router, 2 x 10/100Base-TX, UI Power. Under Accessories, look for this symbol: 🗸 SN4424/JS/48: 24 FXS VoIP GW-Router, 2 x 10/100Base-TX, 48V DC Power. Under Accessories, look for this symbol: 🗸 SN4424/JS/UI: 24 FXS VoIP GW-Router, 2 x 10/100Base-TX, UI Power. Under Accessories, look for this symbol: 🗸

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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) 🗸

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