

Analog VoIP Gateways

SmartNode SN4110 Analog VoIP Gateway | 2, 4, 6 or 8 ports for up to 8 phone or fax calls

SmartNode



The SmartNode 4110 Series of VoIP Media Gateways supports up to eight telephone connections integrating PSTN, PBX, and standard phones for voice and fax over any IP network. Now the corporate, small, or remote office can use voice-over-packet services to eliminate toll charges, access local PSTN calling, and secure voice traffic end-to-end.

Overview

The business-class SmartNode 4110 VoIP Media Gateway supports up to eight transparent phone calls and leverages VoIP for carrier and corporate access. Connecting to any analog phone, fax, or PBX, the SN4110 is an effective and flexible solution for toll-bypass, remote/branch office voice connectivity, and enhanced carrier services.

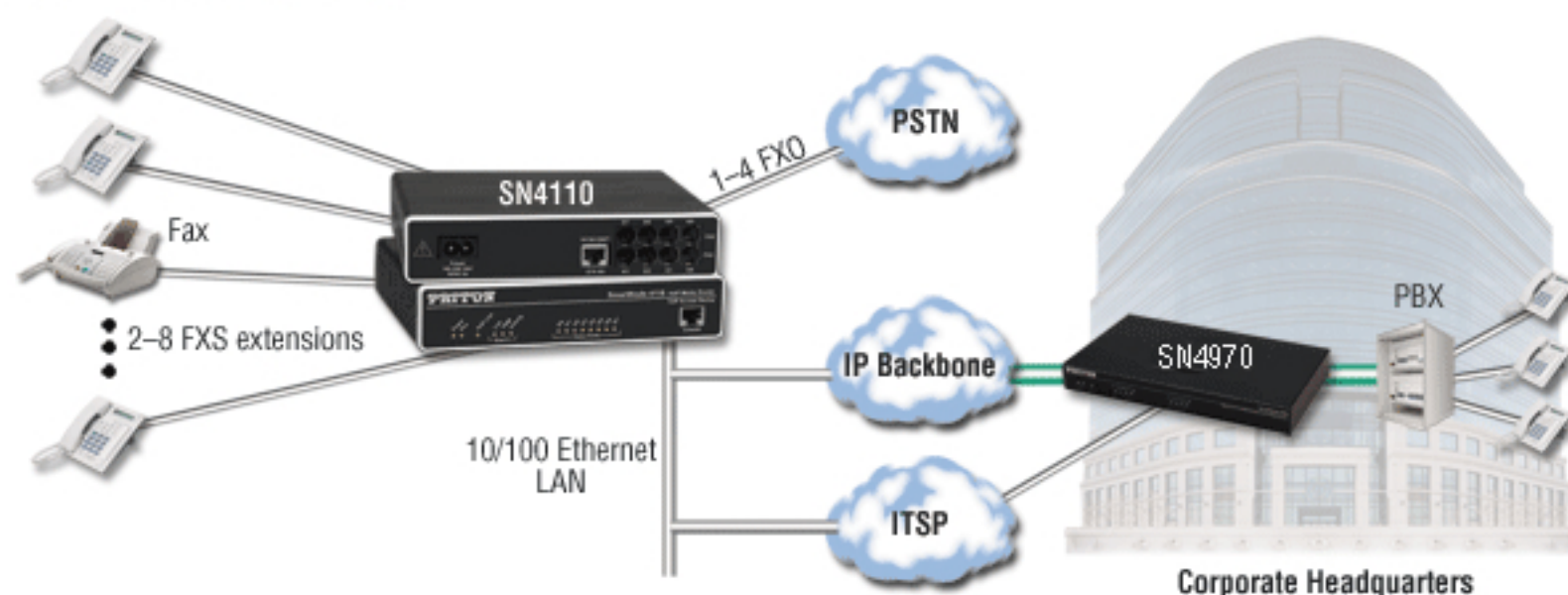
The SN4110 Series is the perfect choice for phone-to-IP connectivity supporting up to 8 FXS ports or a combination of 4 FXS and 2 or 4 FXO ports. With its FXS analog ports, the SN4112S connects to any legacy telephone or PBX and provides dial-tone, ringing, and caller-ID. When equipped with FXO ports, the local PSTN can be accessed enabling local calling and enhanced toll-bypass applications while using a single connected telephone. Flexible call integration allows per-port telephone numbers, programmable call progress tones, and distinctive ringing. 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.

Patton's SmartNode SN4110 Series delivers the legacy phone interfaces, service transparency, and flexible PSTN integration required for true converged packet voice.

Applications

Remote Office/Branch Office Voice Extension and Access

In enterprise networks, transparent access to PBX features while using existing equipment is key to low-cost operations. Now, instead of installing a separate PBX at the remote office, the SmartNode 4110 Series is able to provide transparent extension while simultaneously connecting multiple locations. The extensions can be managed centrally and benefit from PBX services such as calling groups, least cost routing, and call forwarding. PSTN access allows local calls to be processed without using corporate remote PBX resources. Additionally, the corporate PBX can break-out and bypass any long distance charges by using the remote office for the local gateway.



Features

- **Up to 8 FXS and/or FXO ports**—Compact, reliable stand-alone VoIP gateway with different port options. Supports simultaneous voice or fax calls on all ports. (note: Patton does not carry an 8-FXO unit at the present time)
- **Advanced Local Call Switching**—Virtual interfaces and routing tables provide industry leading flexibility in call handling programming. Local call switching, soft fallback to alternative routes. Simultaneously connects to multiple SIP services/IP PBXs.
- **Complete SIP and T.38 support**—Supports the complete range of industry standard VoIP: SIP, H.323, T.38 fax, fax and modem handling, DTMF relay. Codecs G.729, G.723, etc.
- **Easy Management & Provisioning**—Web-based management, SNMP, command line interface. Automated mass provisioning for efficient large-scale deployments.
- **Outstanding Interoperability**—Proven integration for voice and T.38 fax with 3CX®, Asterisk™, PingTel™ and other leading IP PBX systems and soft switch vendors.
- **Supported by SmartNode™ Redirection Service:** A free service enabling zero-touch mass deployments for Service Providers and Distributors with auto-provisioning servers ([Learn More](#)).

Specifications

Capacity	<ul style="list-style-type: none"> Up to 8 simultaneous VoIP or T.38 fax calls (depending on the model)
Voice Signaling	<ul style="list-style-type: none"> H.323v4, SIPv2 (B2BUA capable, multi-instance, simultaneous support of multiple registrars and direct IP dialing) SIP call transfer, redirect DTMF in-band & out-of-band All tones programmable (dial, ringing, busy)
Voice Processing	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Virtual interfaces Regular expression based call routing and number manipulation Number blocking Short-dialing Digit collection, distribution and hunt groups Transparent line extension Fallback Routing: Soft fallback to alternative route(s)
FXS Connectivity	<ul style="list-style-type: none"> 2-wire Loopstart on RJ-11/12 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	<ul style="list-style-type: none"> 2-wire Loopstart on RJ-11/12 Programmable impedance, ring detection, tone detection, disconnect supervision Caller ID detection
IP services	<ul style="list-style-type: none"> One 10/100 Ethernet port DHCP Client Access control lists Traffic policing IEEE 802.1p, TOS, DiffServ labeling IEEE 802.1Q, VLAN tag insertion/deletion (simultaneous support of multiple VLANs) IPsec, IKE, AES/DES/3DES Encryption (optional)
Management	<ul style="list-style-type: none"> Web/HTTP, CLI with local console and remote Telnet access TFTP configuration & firmware loading SNMP MIB II and product MIB Secure Mass provisioning for both firmware and unit/subscriber configuration Built-in diagnostic tools (trace, debug, call generator)
System	<ul style="list-style-type: none"> CPU Motorola MPC870 @ 66MHz Memory 32MB SDRAM/8MB Flash Power 100–240 VAC (50/60 Hz) Power dissipation 4–12W, model dependent
Environment	<ul style="list-style-type: none"> Temp.: 32–122°F (0–50°C) Humidity: Up to 90% (non condensing)
Compliance	<ul style="list-style-type: none"> EMC compliance: EN55022 and EN55024 Safety compliance: EN 60950 CE compliance FCC Part 15 Class A TBR21 (FXS) RoHS
Dimensions	<ul style="list-style-type: none"> SN4110: 6.1D x 7.3W x 1.5H in. (15.5D x 18.5W x 3.9H cm) SN4112s: 5.5D x 4.2W x 1.5H in. (13.9D x 10.6W x 3.9H cm)