

Overview

The SmartNode™ 4740 VoIP Gateway provides 16 to 128 analog FXS (FXO coming soon) interfaces to connect phones, fax or PSTN trunk lines to your All-IP based Unified Communication system such as SIP Trunks, IP PBXs, Hosted Solution, etc.

Like every SmartNode, the SN4740 supports every industry-standard Codec to deliver toll-quality voice on every call. Using Patton Cloud's Call Quality Assessment and Monitoring functions, together with E-Mail or SMS notification, it ensures meeting Service Level Agreements at the customer premise with no effort. Which helps in preventing Call Quality related problems, and reduces time resolving them by utilizing the remote access functions of Patton Cloud.

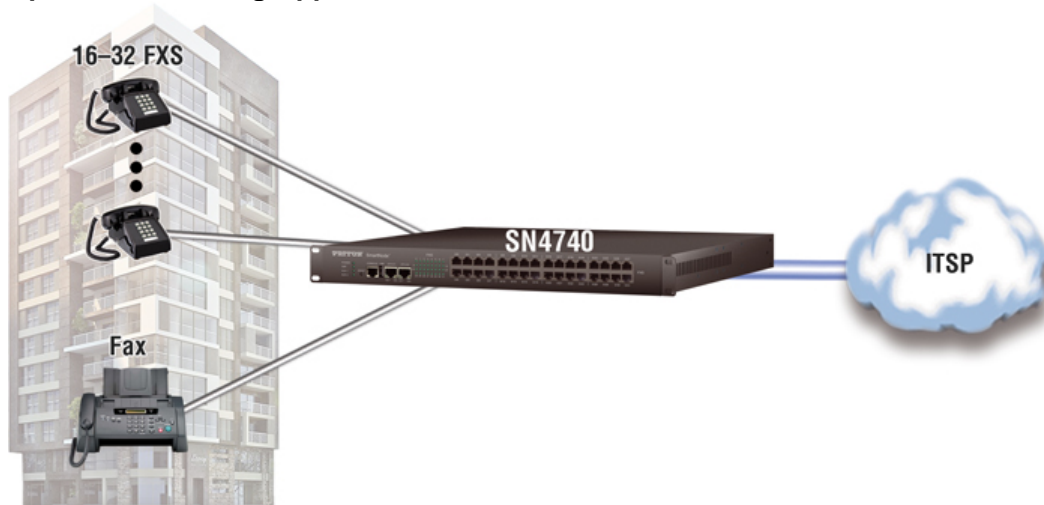
VoIP-over-VPN voice encryption provides secure voice and data via IPsec** or OpenVPN** in addition to SIP/TLS** & SRTP**.

The advanced call-router functionality includes least-cost call routing with flexible dialed-number plan support. The SmartNode survivability suite provides SIP Trunk and PSTN fallback to ensure business continuity in case the IP network fails. In addition, the SmartNode delivers a smooth transition to All-IP 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 SN4740 VoIP Gateway. Providing 16 to 128 FXS (FXO coming soon) interfaces and two 10/100/1000 Ethernet ports, the SN4740 delivers a reliable, cost-effective solution for the Enterprise.

Applications

Apartment Building Application



Hotel Application



Specifications

Capacity

Up to 128 simultaneous low bandwidth voice or HD calls with SRTP or T.38

SIP Signaling

- SIPv2 over UDP/TCP or TLS**
- SIP call transfer, redirect
- Overlap dialing, PRACK, P-Header support
- Multi instance, simultaneous support of multiple registrars and direct
- DTMF in-band & out-of-band
- B2BUA—eSBC capable**

Voice Processing

- G.722
- G.711m/A-law
- G.723.1 (6.4 kbps)
- G.729, 729a, 729ab (8 kbps)
- G.726 (16, 24, 32, 40 Kbps)
- AMR-NB (4.75, 5.15, 5.9, 6.7, 7.4, 7.95, 10.2, 12.2 kbps)
- Fax relay T.38, bypass G.711
- iLBC at 13.33 kbps (SIP-SIP only)
- G.168-2004 echo cancellation (128 ms)
- Up to 128 simultaneous low-bandwidth voice or T.38 fax calls
- Up to 128 HD calls with SRTP
- Silence suppression and comfort noise
- Adaptive and configurable dejitter buffer
- Configurable RTP packet length

Call Switching & Services

- 3 way and N way conferencing
- 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

- 2-wire Loopstart on RJ-11/12 or RJ21 (Telco 50-pin)
- MWI – high voltage, line reversal and FSK method
- Localization—All tones programmable (dial, ringing, busy)
- EuroPOTS (ETSI EG201188)
- Programmable AC impedance, feeding, ring and onhook voltage
- Peak Ring voltage: 87.7Vpk
- Ring voltage: 62Vrms
- Current Feed ILA: 26mA
- Talk Battery Voltage: -20V
- On-Hook voltage VOC: 51V
- Caller-ID FSK and ITU V.23/Bell 202 generation
- Long Reach FXS—10 km @ 3REN load
- Secondary Surge Protection*

FXO Connectivity (coming soon)

- 2-wire Loopstart—RJ11/12 connector or RJ21 (Telco 50-pin)
- Programmable impedance
- Ring detection, tone detection
- Caller ID detection (FXS, DTMF)
- Connect & Disconnect supervision

Connectivity

- Two 10/100/1000Base-T Ethernet ports
- USB port
- Auto-MDIX
- DHCP Client and Server
- PPPoE Client (multi-session)
- IP Multi-Netting, VLAN, Secondary IP
- IPv4 and IPv6—Dual Stack
- ICMP
- Dynamic and static NAT and NATP
- Intelligent ACL
- DNS, DynDNS
- SNTP Client

19-in. rack-mount chassis

Dimensions & Packaging

- 1U: 16–32 ports
- 2U: 48, 64 ports
- 3U: 72, 96 ports
- 4U: 128 ports

Environment

- Operating temperature: 32 to 104°F (0 to 40°C)
- Operating humidity: up to 90%, non-condensing)

Safety & Compliance

- EMC compliance: EN55022 and EN55024
- Safety compliance: EN 60950
- CE compliance
- FCC Part 15 Class A
- TBR21 (FXS)
- RoHS
- ITU-T K.21 protection (FXS ports)*