

# SmartNode™ Analog Telephone Adapter & VoIP Gateway

## Model SN200



*The SmartNode 200 Series of Analog Telephone Adapters and Gateways support up to four telephone connections, integrating legacy Phones and Fax machines in to a UCC Environment. High quality voice and reliable fax over any IP network. All-IP does not end when analog terminals have to be integrated. Security and quality guaranteed.*

### Up to 4 Analog Interfaces (FXS/FXO)

1, 2, or 4 analog ports. Either FXS-only or 1 FXS with 1 FXO for survivability purposes.

### Advanced Calling Features

Call-waiting, hold, park, transfer, toggle, local and server-side conference, MWI, caller ID, and more.

### Full VoIP protocol support

SIPv2, SIPv2 over TLS\*\*, SIPv2 over IPv6, T.38, G.722 HD voice, RTP Security with SRTP\*\*, fax and modem bypass\*\*\*, DTMF relay.

### Lowest OPEX

Secure zero-touch and mass provisioning (HTTPS) coupled with operation, administration and management out of the Patton Cloud, resulting in the lowest OPEX ATA on the market.

### Survivability & Local Breakout

Resiliency or local breakout for the enterprise thanks to onboard FXO port.

### Easy Management & Provisioning

WebWizard, HTTPS, TR-069\*\*\* zero-touch provisioning, SNMP, and command line interface. Automated mass provisioning for efficient large-scale deployments.

### Small Form Factor & PoE Powered

Smallest size ATA on the market, PoE powered\*—no external power supply required.

### Outstanding Interoperability

Interoperable for voice and T.38 fax with leading SIP service providers, softswitch vendors, and major IP-PBX manufacturers.

Connect with confidence using the SmartNode SN200 Series, legacy telephony equipment to nowadays common SIP trunk and hosted services. The SN200 Series support a variety of telephony interfaces, from 1 to 4 simultaneous calls. Depending on the model, there are FXS and FXO ports available for survivability or number portability during the All-IP migration phase.

Designed for professional network deployments, the SN200 provides Telco Operators and Enterprise users a cost-effective solution integrating legacy phones, fax and metering machines in to an All-IP Network.

Orchestrated by the Patton Cloud, the Capex associated with deployment, operation and management of the SN200 is the lowest in the market. Secure Zero touch, mass provisioning is standard and included in every SN200 model.

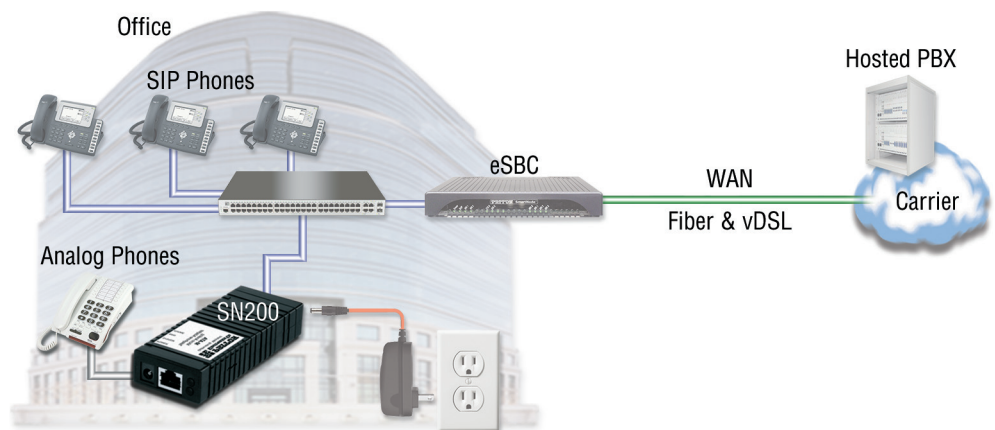
## Applications

Whether used as an ATA, connecting legacy telephones to an IP PBX or as a VoIP Gateway integrating legacy fax machines into a hosted UC environment, the SN200 adapts to every use-case.

Thanks to the Power over Ethernet option\*, there is no need for a power plug at the remote location.

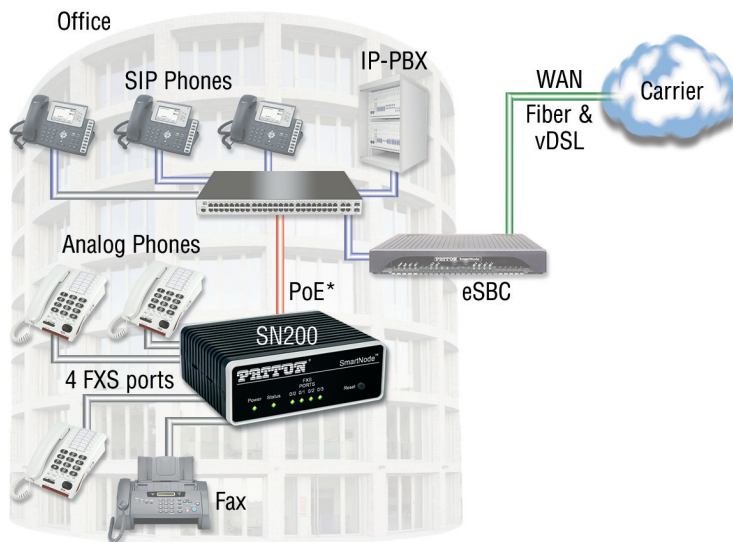
Operated, managed, and administrated through the Patton Cloud, proactive notification in case of a customer network problem, helps to reduce service down-times and increase customer satisfaction.

Visit [patton.com/products/unified-communications](http://patton.com/products/unified-communications) for more information.

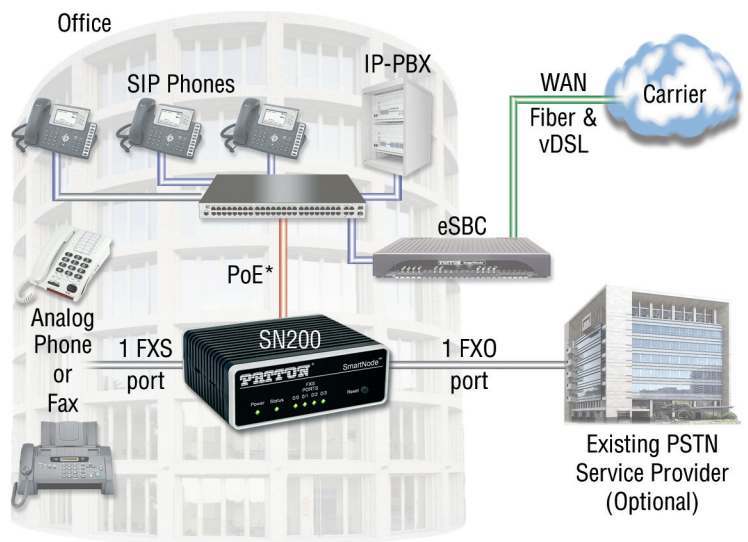


1-Port SN200 ATA application

# SmartNode™ Model SN200 ATA/VoIP Gateway



4-Port SN200 ATA application



1 FXS/1 FXO SN200 ATA application

## Specifications

### Call Capacity

Up to 4 simultaneous G.722 or G.711 or T.38 fax calls

### Voice Signaling

- SIPv2 over UDP or TCP
- SIPv2 TLS\*\*
- SIPv2 over IPv6
- SIP call transfer, redirect
- Overlap or en-bloc dialing
- DTMF in-band, out-of-band
- Configurable tones Call Routing & Services
- Regular expression number matching
- Regular expression number manipulation
- Least Cost Routing
- Number blocking
- Short-Dialing
- Digit collection
- Distribution-Groups and Hunt-Groups

### FXS Connectivity

- FXS ports, RJ-11/12
- 2-wire Loopstart
- EuroPOTS (ETSI EG201188)
- Programmable AC impedance, feeding, ring and onhook voltage
- Caller-ID FSK and ITU V.23/Bell 202 generation
- 5 REN load on FXS port

### FXO Connectivity

- 2-wire Loopstart – RJ11/12

- Programmable impedance
- Ring detection, tone detection
- Caller ID detection (FXS, DTMF)
- Disconnect supervision

### Voice Processing

- G.722, G.711u/a-law
- G.729ab (8 kbps)
- G.726 (16, 24, 32 Kbps)
- G.168-2004 echo cancellation (64 ms)
- Up to 4 simultaneous low bandwidth, high definition voice or T.38 fax calls
- Silence suppression and comfort noise
- Adaptive and configurable dejitter buffer
- Configurable RTP packet length

### Quality of Service

IEEE 802.1p, IEEE 802.1Q, 4096 VLANs (tag insertion/deletion), TOS, DiffServ labeling

### Connectivity

- One 10/100 Base-T Ethernet port
- Auto-MDIX
- DHCP Client (IPv4 & IPv6)
- PPPoE Client (multi-session)
- IP Multi-Netting, VLAN, Secondary IP
- IPv4 & IPv6 Dual Stack
- ICMP

- Dynamic and static NAT and NAPT
- Access Control List (ACL)
- DNS, DynDNS
- DHCP Server
- SNTP Client

### Management

- Patton Cloud managed
- Web/HTTPS, CLI with Telnet and SSH access
- Web Wizard
- Fully Documented CLI
- Telnet and HTTPs access
- TR-069\*\*\*, TFTP, HTTP, HTTPs configuration/firmware up- and download
- SNMPv3 agent
- MIB II and private MIB
- Built-in diagnostic tools
- Secure Auto-Provisioning with built in root CA

### Power consumption

- 1 port SN200: Under way
- 2 & 4 port SN200: Under way

### Dimensions

- **1 port SN200:** 3.8 L x 1.65 W x 0.75 H in. (9.7 L x 4.2 W x 1.9 H cm.)
- **2 & 4 port SN200:** 0.71 H x 1.1 W x 2.56 D in (18 H x 28 W x 65 D mm)

### Weight

- **1 port SN200:** 2.4 oz (68 g)
- **2 & 4 port SN200:** 3.2 oz (90 g)



4-Port SN200 Rear View



1-Port SN200 Rear View

### Power

- **1 port SN200:** 110–230 VAC (50/60 Hz)
- **2 & 4 port SN200:** 110–230 VAC (50/60 Hz) or PoE: IEEE 802.3af Class 2

### Compliance

- EMC compliance: EN55032 and EN55024
- Safety compliance: EN62638-1
- CE compliance
- FCC Part 15 Class B

### Weight

- **1 port SN200:** 32–104°F (0–40°C)
- **2 & 4 port SN200:** 32–104°F (0–40°C)

Specifications subject to change without notice | \* Depending on model | \*\* Licensed feature at additional charge | \*\*\* Function coming soon | Performance and capacity data represent extensive Patton lab testing and validation behavior. Field usage, depending on enabled or disabled features may yield different results.



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