



APPLICATION NOTE

SIP Phone Interface

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1 Analog Interface (FXS)

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 modern 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.

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

Smallest size ATA on the market.

Outstanding Interoperability

Inter-operable 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, Lencore's MPI to common SIP trunk and hosted services. Designed for professional network deployments, the SN200 provides Telco Operators and Enterprise users a cost-effective solution integrating the MPI to an All-IP Network.

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

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SmartNode™ Model SN200 ATA/VoIP Gateway

Specifications*

Voice Signaling

- SIPv2 & SIPv2 over 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 imped-ance, feeding, ring and on-hook voltage
- Caller-ID FSK and ITU V.23/Bell 202 generation
- 5REN load on FXS port

Voice Processing

- G.722, G.711m/A-law
- G.733(6.4kbps), 729ab (8kbps)
- G.726 (16, 24, 32, 40 Kbps)
- G.168-2004 echo cancellation (128 ms)
- Silence suppression and comfort noise
- Adaptive and configurable de-jitter 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 Management
- 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
- Separate config domain (LAN side config and WAN side config)
- MIB II and private MAB
- Built-in diagnostic tools
- Secure Auto-Provisioning with built in root CA

Power Consumption

- 1 port: 3 watts

Power

- 110-230 VAC (50/60 Hz)

Dimensions

- 1 port:
 - 3.8 L x 1.65 W x 0.75 H in.
(9.7 L x 4.2 W x 1.9 H cm.)

Weight

- 1 port: 2.4 oz (68 g)

Environment

2-104 °F (0-40 °C)

Compliance

EMC compliance: EN55032 and EN55024

Safety compliance: EN62638-1

CE compliance

FCC Part 15 Class B