Analog VoIP IAD

SmartNode™ Model 4830 DSL Series

The SmartNode™ 4830 DSL Series combines a toll-quality analog VoIP gateway with DSL connectivity—without the need for a separate DSL modem. This all-in-one gateway also includes IGMP v2/v3 proxy functionality to support video delivery services. This is triple-play at your fingertips!

The SmartNode™ 4830 DSL Series offers models with combinations of 2 to 8 FXS ports, and 2 to 4 FXO ports. The 10/100Base-T LAN port supports Auto-MDIX and VLAN. The integrated DSL port provides direct access to broadband networks. Like every SmartNode, the 4830 DSL series supports industry standard VoIP signaling protocols SIP, H.323, T.38 Fax-Relay, plus fax and modem-bypass and is interoperable with leading softswitches and VoIP services.

Quality of Service (QoS) is ensured by using advanced voice prioritization and traffic management. DownStreamQoS™ ensures voice without interruptions even over best-effort internet connections. Packet labeling according to 802.1p, ToS, and DiffServ enable integration into managed QoS networks.

The SN4830 is the solution for service providers and network integrators looking for seamless integration of analog phones and PBXs into converged VoIP-data networks. It ensures easy setup, continuous trouble-free operation, and cost-effective deployment. The support of the leading VoIP signaling protocols ensures interoperability with third-party equipment and protects your investments for the future.

Visit www.patton.com/smartnode for more information.
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Specifications**

** Voice Signaling
- SIPv2 • H.323v4 • SIP call transfer, redirect • Overlap or en-bloc dialing • DTMF in-band, out-of-band • Configurable tones
- Voice Processing
  - G.711µ-law/A-law • G.723.1 (5.3 or 6.4 kbps) • G.729ab (8 kbps) • G.726 (16, 24, 32, 40 kbps ADPCM) • G.168 Echo Cancellation (25ms) • 8 parallel analog voice connections • DTMF detection and generation • Silence Suppression and comfort noise • Adaptive and configurable dejitter buffer • Configurable packet length
  - Fax and Modem Support
    - G.711 transparent Fax • T.30 • T.38 Fax Relay (9.6k, 14.4k)
  - Call Routing & Services
    - Regular Expression number matching • Regular expression number manipulation • Least Cost Routing • Number Blocking • Short-Dialing • Digit Collection • Distribution- and Hunt-groups
  - Quality of Service (QoS)
    - Voice priority, DownStreamQoS • Traffic Shaping/Policing • IEEE 802.1p/Q • 4096 VLANs (Tag insertion/deletion) • TOS, DiffServ Labeling
- Fax and Modem Support
  - G.711 transparent Fax • T.30 • T.38 Fax Relay (9.6k, 14.4k)

** IP Connectivity
- One 10/100 Base-T Ethernet port • Auto-MDIX • DHCP Client/Server • PPPoE Client (multi-session) • IP Multi-Netting, VLAN, Secondary IP • IPv4, IPv6, ICMP • ACL Firewall • DNS, DynDNS • SNMP Client • Optional IPsec VPN (DES, 3DES, AES)

** Broadband Access
- ADSL2+ ITU-T G.992.5, Annex A/M/B (up to 24 Mbps) • 4-wire G.SHDSL ITU-T G.991.2, Annex A, B, F, G (Up to 11.4 Mbps) • PPPoE • 8 PVCs, each UBR, CBR, or VBR ‑ rt selectable • 1.610 OAM F4/F5 support • G.994.1 (G.hs)

** Analog Connectivity
- 2 ‑ wire Loop start RJ ‑ 11/12 • Short haul loop, 1.1 km@3REN • EuroPOTS (ETSI EG201 188) • Programmable AC impedance, feeding, and ring voltage • On hook voltage 29V DC • Caller ‑ ID Type 1/2 FSK and ITU V.23/Bell 202 generation

** Management
- Web ‑ based GUI • Fully Documented CLI • Telnet and HTTP access • TFTP configuration up ‑ and ‑ download • TFTP firmware upgrade • SNMPv1 agent (MIB II and private MIB) • Built ‑ in diagnostic tools • Secure Auto ‑ Provisioning

** Power & Packaging
- Desktop Metal chassis
- Dimensions: 11.5 x 1.85 x 6.2 in. (29.2 x 4.7 x 15.7 cm)
- Weight: 1.85 lbs. (840 g)
- Power Consumption: 4 W
- Operating Temp.: 32–104° F (0–40°C)
- Operating Humidity: Up to 90%, non-condensing

** Compliance
- EMC Compliance: EN55022 & EN55024
- CE Compliance
- FCC Part 15 Class A

Model Information

SmartNode™ FXS/FXO VoIP Gateway Routers, Integrated G.SHDSL WAN

SN4832/JS2GS/EUI: 2 ‑ FXS VoIP Gateway Router, G.SHDSL WAN
SN4834/JS2GS/EUI: 4 ‑ FXS VoIP Gateway Router, G.SHDSL WAN
SN4836/JS2GS/EUI: 6 ‑ FXS VoIP Gateway Router, G.SHDSL WAN
SN4838/JS2GS/EUI: 8 ‑ FXS VoIP Gateway Router, G.SHDSL WAN

SmartNode™ FXS/FXO VoIP Gateway Routers, Integrated ADSL2+ Annex A/M/B WAN

SN4832/JSA/EUI: 2 ‑ FXS VoIP Gateway Router, ADSL WAN
SN4834/JSA/EUI: 4 ‑ FXS VoIP Gateway Router, ADSL WAN
SN4838/JSA/EUI: 8 ‑ FXS VoIP Gateway Router, ADSL WAN
SN4838/4JS4JOA/EUI: 4 ‑ FXS, 4 ‑ FXO VoIP Gateway Router, ADSL WAN
SN4834/2JS2JOA/EUI: 2 ‑ FXS, 2 ‑ FXO VoIP Gateway Router, ADSL WAN

* IPsec VPN requires a separate license.
** Specifications subject to change without notice.