

SmartNode[™] 4830 Serial Series

Analog VolP IAD

Analog VoIP IAD with V.35 or X.21 interface. The SmartNode™ 4830 Serial Series connects up to 8 phone lines, VoIP, and Internet/VPN access across the integrated broadband WAN interface. Offering bundled voice, data, and VPN services, the SmartNode IAD delivers best-in-class VoIP quality for lowest cost networking.

Integrated Serial Uplink

ADSL2+, G.SHDSL**, T1/E1, V.35/X.21 WAN access options. Two 10/100 Ethernet ports. Access router with NAT, Firewall, PPPoE, DHCP, and DynDNS.

Full VolP Protocol Support

SIPv2, H.323v4, T.38, fax & modem bypass, G.723, G.729, G.726, G.711, echo cancellation, silence compression, comfort noise, DTMF relay.

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FXS, FXO, or Combinations

Up to 8 FXS ports connect to your standard telephone or PBX. 2 or 4 FXO ports allow local PSTN connections. Programmable call routing and switching.

QoS Guaranteed Voice & Data

Quality of Service ensures voice traffic gets priority without shutting down your Ethernet LAN.

Management & Provisioning

Web-based management, SNMP, command line interface, and auto-provisioning for automated configuration & software upgrades.

SmartNode™ Awards

- 2011 Internet Telephony Product of the Year: SmartNode™ 4120
- 2010 Internet Telephony Product of the Year: SmartNode™ 5400
- 2009 Internet Telephony Product of the Year: SmartNode™ 4400 Series
- 2008 Internet Telephony Product of the Year: SmartNode™ 4961
- 2007 Internet Telephony Product of the Year: SmartNode™ S-DTA
- 2006 Internet Telephony Product of the Year: SmartNode™ 4960
- 2005 Internet Telephony Product of the Year: SmartNode™ 4630

atton's SmartNode™ 4830 Serial Series IADs let you add packet voice while providing access routing with native V.35 or X.21 synchronous serial connection. Add up to 8 phone lines and combine Internet and VPN access on a single PPP or Frame-Relay based access line for the new standard in toll-bypass, remote/branch office connectivity, and enhanced carrier services.

The SN4830 Serial Series offers models with combinations of 2 to 8 analog FXS phone ports and 2 or 4 FXO ports. The dual 10/100Base-T LAN ports can be used for LAN, IPsec VPN and DMZ connections. The integrated X.21 or V.35 WAN port provides direct access to broadband networks. Like every SmartNode, the SN4830 Serial Series supports the 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) features include 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 the seamless integration of analog

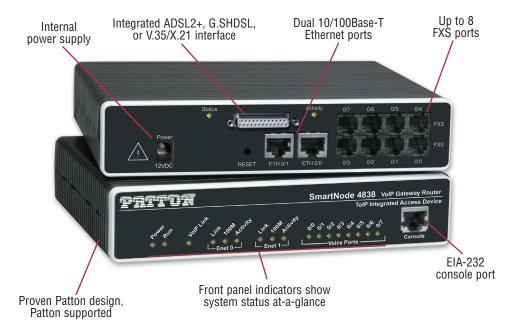
phones and PBXs into converged VoIP-data networks. It ensures easy setup and continuous trouble-free operation and cost effective deployment. The support of the leading VoIP signature of the support of



Special Rates Available
Call for Details

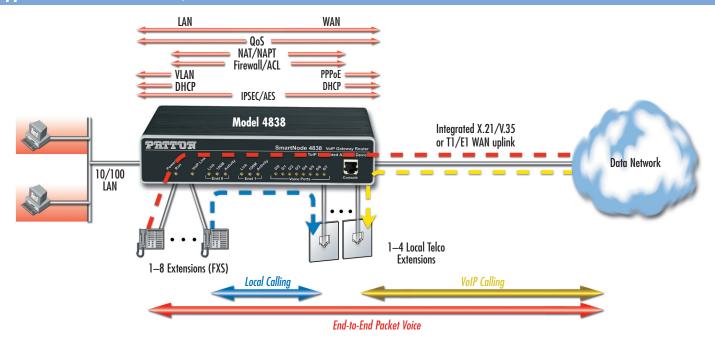
naling protocols ensures interoperability with third-party equipment and protects your investments for the future.

Visit www.patton.com for more information.





Application—Remote Office/Branch Office Voice Extension and Access



Specifications*

Voice Connectivity

2-wire Loopstart, RJ-11/12 • Short haul loop 1.1 km @3REN • EuroPOTS (ETSI EG201 188) • Programmable AC impedance, feeding, and ring voltage; On-Hook Voltage 29VDC • Caller-ID Type-1/2 FSK and ITU V.23/Bell 202 generation

IP Connectivity

Two 10/100 Ethernet ports • ADSL2+ (Annex A, B, I, J, I, M, U-R2 X.21/V.35; Frame Relay (8 PVCs); RFC1490, FRF.12 fragmentation; LMI, Q.933D, ANSI 617D, Gang of Four; PPP, PAP, CHAP, LCP, IPCP T1/E1; ITU-T G.703, ANSI T1.403; AMI, B8ZS, HDB3)

Voice Processing

G.711 A-Law/µ-Law (64kbps) • G.726 (ADPCM 40, 32, 24, 16 kbps) • G.723.1 (5.3 or 6.3 kbps) • G.729ab (8kbps) • G.168 echo cancellation • 8 simultane-

* Specifications subject to change without notice.

ous low-bandwith voice or T.38 fax calls • DTMF detection and generation • Carrier tone detection and generation • Silence suppression and comfort noise • Configurable dejitter buffer • Configurable tones (dial, ringing, busy) • Configurable transmit packet length • RTP/RTCP (RFC 1889)

Fax and Modem Support

G.711 transparent fax • Fax over IP (FoIP) • T.38 Fax relay (9.6 k, 14.4 k)

Voice Signaling

SIPv2 • H.323v4 • 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 manipula-

tion • Least Cost Routing • Number blocking • Short-Dialing • Digit collection • Distribution-Groups and Hunt-Groups

IP Services

IPv4 router; RIPv1, v2 (RFC 1058 and 2453) • Programmable static routes • ICMP redirect (RFC 792); Packet fragmentation • DiffServ/ToS set or queue per header bits • Pocket Policing discards excess traffic • 802.1p/Q VLAN support with 4096 IDs • IPsec AH & ESP Modes • Manual Key; IKE optional • AES/DES/3DES Encryption

Management

Industry standard CLI with local console (CRJ-45, RS-232) and remote Telnet access • TFTP configuration & firmware loading • SNMP v1 agent (MIB II and private MIB) • Built-in diag-

nostic tools (trace, debug) •Java™ Applet; HPOV Integration with NNM

Operating Environment

Temp.: 0-40°C

Humidity: Up to 90% (non-condensing)

Svstem

CPU Motorola MPC859 @ 50 MHz • Memory 16MB SDRAM/4MB Flash • Power: 100–240 VAC (50/60 Hz) • Power dissipation: 4W

Compliance

EMC compliance: EN55022 and

EN55024

Safety compliance: EN 50950

CE compliance FCC Part 15 Class A

Model Information

Integrated V.35 WAN Interface

SN4832/JSC/EUI: 2 Port FXS SN4834/JSC/EUI: 4 Port FXS SN4836/JSC/EUI: 6 Port FXS SN4838/JSC/EUI: 8 Port FXS SN4834/2JS2JOC/EUI: 2 FXS, 2 FXO SN4836/ 4JS2JOC/EUI: 4 FXS, 2 FXO

SN4832/JOC/EUI: 2 FXO

SN4834/JOC/EUI: 4 FXO

SN4838/4JS4J0C/EUI: 4 FXS, 4 FXO

Integrated X.21 WAN Interface

SN4832/JSD/EUI: 2 Port FXS SN4834/JSD/EUI: 4 Port FXS SN4836/JSD/EUI: 6 Port FXS SN4838/JSD/EUI: 8 Port FXS **SN4834/2JS2J0D/EUI**: 2 FXS, 2 FXO

SN4836/ 4JS2J0D/EUI: 4 FXS, 2 FX0

SN4832/JOD/EUI: 2 FX0 **SN4834/JOD/EUI**: 4 FX0

Sync Serial Cables

1205-25M/35M: DB-25 male to M/34

male, for V.35 port

1205-25M/35F: DB-25 male to M/34

female, for V.35 port

EMEM216006: DB-15 male to DB-15

male, for X.21 port

Options & Accessories

SNSW-VPN1: License key for IPsec VPN suppport (DES, 3DES, AES)

** Call for availability.



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