

# Leased Line Extender over IP

## SmartNode™ 4830 Series



The SmartNode™ 4830 series saves leased line costs by extending up to four audio lines between two locations using best-effort networks—even the Internet.

### Service Providers

Offer the same old analog leased line service on the Internet with highly reduced capital and operational expenditure even as you migrate away from TDM.

### Enterprises

Enjoy the benefits of using leased lines on Enterprise IP networks without the hassles of telephone wires

### Security

Connections are always ON and securely encrypted with IPsec and IKE

### Quality of Service

Advanced Traffic Management and Shaping, combined with Patton's DownStream QoS™ enforce uninterrupted toll-quality voice over best-effort networks

### Access Router Functions

Integrated Access router functions with NAT, Firewall, ACL, PPPoE, DHCP, DynDNS and VLAN

### Easy to Monitor and Control

In-Band (RS-232 Console Port) and Out-of-Band Management Capabilities (TELNET and HTTP)

### Integrated DSL Uplink

Built-in ADSL2+ Annex A/M and Annex B options for up to 24 Mbps.

The SN4830 Series Leased Line Extender is a SmartNode that enables end users to deploy leased-line applications like an always-on connection—even on the Internet. Using only one extender on each side, audio leased-lines can be transported over a packet-based network. This means that Internet connections in two locations around the world are sufficient to establish up to four Leased-Lines between those locations!

Many service providers are moving away from their TDM backbone networks and their analog leased lines offerings. The SN4830 series offers service providers a chance to offer the same services like Always-ON connections on analog leased lines over their IP based networks.

To enterprises, it offers a chance to move to best-effort networks like the Internet and

enjoy the same benefits of using analog Leased Lines on the existing LAN network they have already deployed. In addition, it enables LANs to provide Intra-Office Always-ON lines instead of a dedicated web of telephone wires.

After installation, the connection between two SN4830 extenders can be established immediately. It also reestablishes after any network disruption. The connection can also be secured with hardware-accelerated 3DES or AES encryption end-to-end between the extenders, preventing wiretapping and making Patton the right choice for security conscious enterprises.

Visit [www.patton.com](http://www.patton.com) for more information.



Front panel indicators show system status at-a-glance

Proven Patton design, Patton supported



Internal power supply

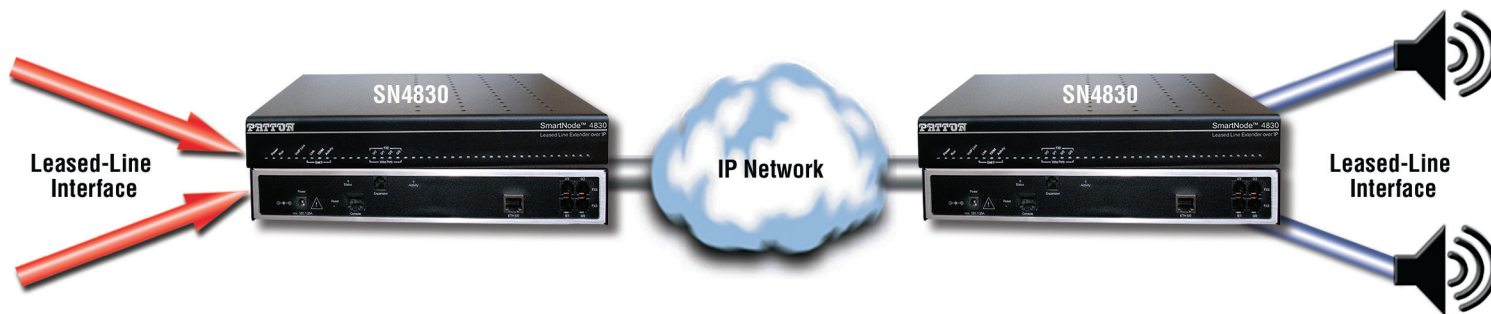
EIA-232 console port

Up to 24 Mbps DSL link (ADSL2+ models)

10/100 LAN Ethernet port

Up to 4 analog ports

## Typical application



## Specifications\*

<b>Capacity</b> 2 or 4 VoIP lines	<b>Quality of Service</b> Audio priority • DownStreamQoS™ • Traffic management, shaping and policing • IEEE 802.1p, TOS, DiffServ labeling • IEEE 802.1Q, VLAN tag insertion/deletion (simultaneous support of multiple VLANs)	<b>Voice Processing</b> CODEC G.711 a-law/mu-law, G.723, G.729ab, • G.726, G.727.	<b>System</b> CPU Motorola MPC875 @66MHz • Memory 32MB SDRAM/8MB Flash • Power 100–240 VAC (50/60Hz) • Power dissipation 4- 8W, model dependent
<b>Audio connectivity</b> 2-wire RJ-11 • Bandwidth 4kHz • Impedance 600-ohm • Narrow Band FXS style hybrid transmit/receive	<b>Voice Signaling</b> SIPV2 (B2BUA capable, multi-instance, simultaneous support of multiple registrars and direct IP dialing) • SIP call transfer, redirect • DTMF in-band & out-of-band	<b>Management</b> Web/HTTP, CLI with local console and remote Telnet access • TFTP configuration & firmware loading • SNMP MIB II and product MIB • Secure Mass provisioning for both firmware and unit configuration • Built-in diagnostic tools (trace, debug, call generator)	<b>Temperature</b> 32–104°F (0–40°C)
<b>Data Services</b> 10/100 Ethernet port • Complete IP access router • DHCP Client & server • Packet fragmentation • Static firewall, NAT, NAPT RFC 1631 access control lists • DMZ port • IPsec, IKE, AES/DES/3DES Encryption			<b>Humidity</b> up to 90%, non-condensing
			<b>Compliance</b> CE Compliance

## Ordering Information

**SN4832/LLA/EUI:** SmartNode 2-channel, 2-wire Leased Line over IP Repeater, ADSL2+ Annex A interface, Encryption, EUI power

**SN4834/LLA/EUI:** SmartNode 4-channel, 2-wire Leased Line over IP Repeater, ADSL2+ Annex A interface, Encryption, EUI power

\* Specifications subject to change without notice.

**PATTON**  
Let's Connect!™

07MSN4830LLA-DS1

Patton is a registered trademark and the terms SmartNode, DownStreamQoS, and SessionRouter are trademarks of Patton Electronics Company in the United States and other countries.

**Patton Electronics Co.**  
7622 Rickenbacker Drive  
Gaithersburg, Maryland 20879  
USA  
Phone +1 301 975 1000  
Fax +1 301 869 9293  
E-mail [sales@patton.com](mailto:sales@patton.com)  
Web [www.patton.com](http://www.patton.com)

**PE-Inalp Networks Private Ltd**  
Old No. 14 and New No.6,  
Brahadambal Road,  
Nungambakkam High Road  
Chennai: 600 034, India  
Phone +91 44 45490395/6/7  
Fax +91 44 4549.0394  
Email [sales@patton.co.in](mailto:sales@patton.co.in)  
Web [www.patton.co.in](http://www.patton.co.in)

**Patton-Inalp Networks AG**  
Meriedweg 7  
CH-3172 Niederwangen  
Switzerland  
Phone +41 (31) 985 25 25  
Fax +41 (31) 985 25 26  
E-mail [sales@inalp.com](mailto:sales@inalp.com)  
Web [www.inalp.com](http://www.inalp.com)