

SMARTNODE 2400 SERIES

Combining a real-time QoS IP router, Voice-Over-Packet Gateway, and ToIP circuit switching, the SmartNode 2400 VoIP Media Gateway is ideal for multi-service carrier access and corporate PSTN networking for up to 120 simultaneous calls.

Modular VoIP Media Gateway

Patton SmartNode 2400

The SmartNode 2400 VoIP Media Gateway provides a high density, seamless link between the circuit-switched telephone network and Voice-over-IP. Ideal for multi-service carrier and corporate PSTN access, the SmartNode 2400 takes 120 calls from voice-to-packet. With dual 10/100 Ethernet ports and four voice interface slots, the SmartNode 2400 connects to any switch, PBX, or data network.

The SmartNode delivers VoIP that has the clarity of toll-quality voice. Multiple user-defined G.711 and G.726 voice codecs are included, as well as G.723 and G.729ab for low bandwidth voice. T.38 FoIP, fax bypass, and modem bypass capabilities ensure that the SmartNode 2400 will seamlessly connect to all voice and data services. QoS ensures optimal voice performance through traffic classification and prioritization.

Patton's exclusive Telephony-over-IP™ (ToIP™) programmable circuit switching delivers service transparency and flexible PSTN integration. With ToIP any BRI, T1/E1 PRI, or FXS port can connect to any telephone or media gateway port.

For more information, visit us at www.patton.com.

Up to 120 Simultaneous Calls

Supports up to 120 simultaneous calls from any combination of voice interfaces including T1/E1 PRI, BRI, and FXS.

T1/E1, BRI, & FXS Voice Interface Cards

Use any combination of voice interfaces for connection to any telephone, switch, or service provider. Scale your connections by simply adding new interfaces.

Compatible CODECs

Connect to any gateway with any one of our standard codecs (including G.711 and G.726). For low bandwidth requirements, use G.723.1 and G.729ab vocoders.

Complete Service Transparency

Using ISoIP™ and ToIP™ technology, calls are connected with voice, data, and supplementary services delivered transparently end-to-end.

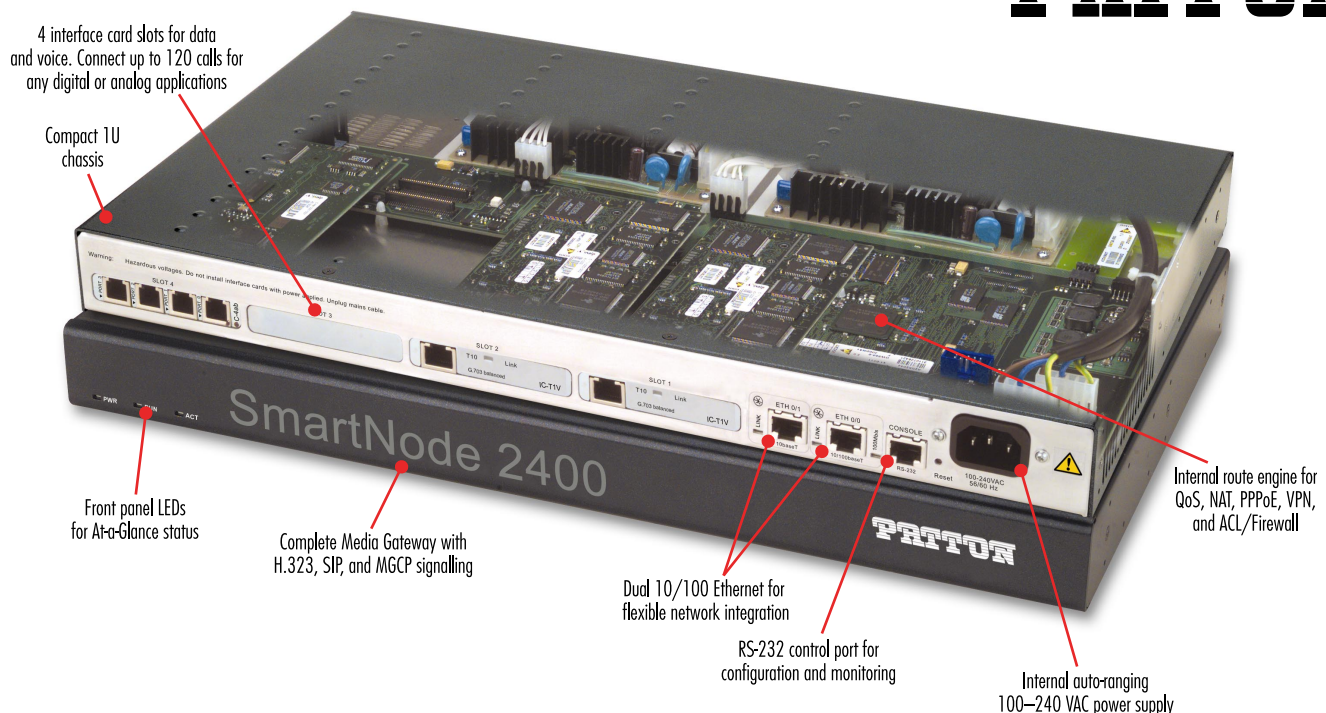
H.323v3 and H.323+ VoIP

Connect to any SmartNode or VoIP capable device with universal call control signalling. Use advanced features including H.245 Fast Connect, Early Start, Annex M3, ECS support, and RAS.

QoS Router with Dual 10/100 Ethernet

Connect to your LAN with high speed Ethernet and deliver increased bandwidth and efficiency. Traffic classification prioritizes data and ensures optimal voice quality.

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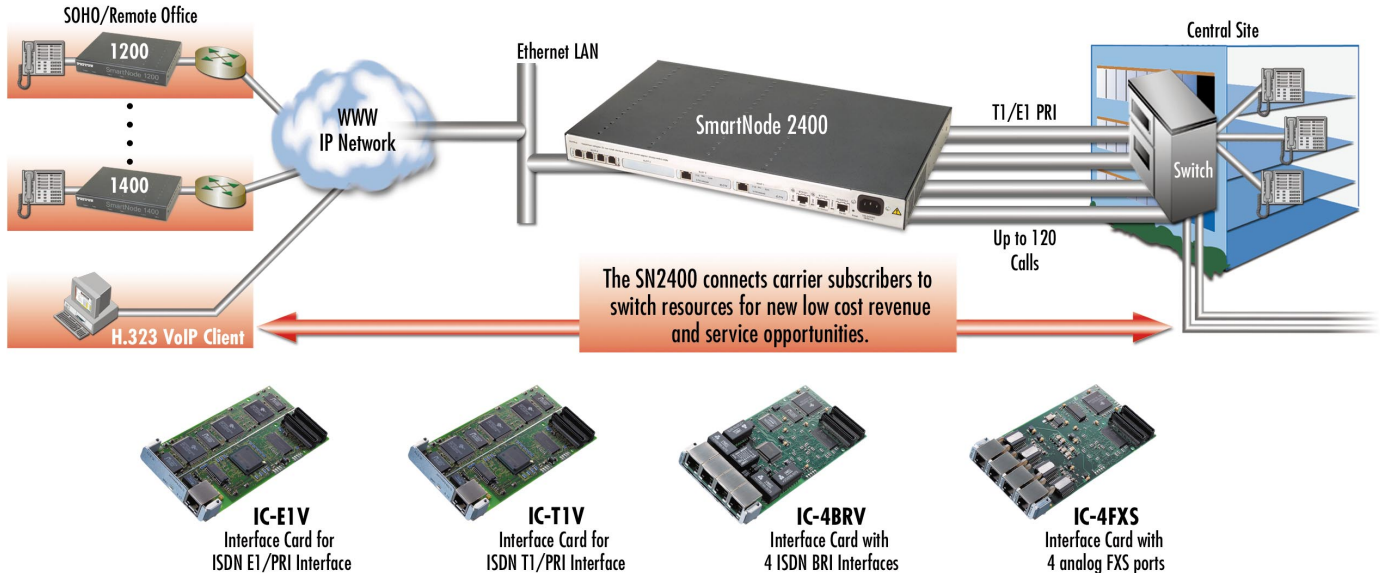
Application—Shared-Switch Access

To take advantage of emerging technologies and the changing regulatory environments, network service providers are providing new services which can be integrated within the enterprise to reduce costs and improve service. Deployed as a trunk gateway, the SmartNode is the seamless link between the PSTN and VoIP access.

Subscribers now access new carrier services without incurring charges from the incumbent carrier.

In enterprise networks, the SmartNode integrates telephony and IP data communications for best use of bandwidth, improved office-to-office communication, and reduced network costs.

Instead of installing a separate PBX in a remote office, the SmartNode is able to provide transparent extension of PBX phones. The extension can be managed centrally and benefit from services such as calling groups, least cost routing, and call forwarding.



Specifications

Data Connectivity

- 2 10/100Base-T Ethernet, RJ-45

Voice Signalling

- Euro ISDN EDSS-1/ETSI BRI/NET3
 - ETS 300 012-1 (ITU-T I.430)
 - ETS 300 402-1 (ITU-T Q.921)
 - ETS 300 403-1/2 (ITU-T Q.931)
 - ETS 300 102-1 (ITU-T Q.931)
- Q-SIG (PSS-1)
 - ECMA-143
 - ETSI and ISO/ECMA channel numbering
- SIP and MGCP
- H.323v3
 - RAS, H.225, H.245
 - Fast-connect, early H.245
 - Gatekeeper autodiscovery
 - Alias registration
 - Overlap sending
 - Empty capability set (call transfer, hold)
 - H.323v1 call transfer, hold
- ECS support
- ISDN over IP (ISoIP)

- H.323 GW and GK compatible
- H.323 Annex M3
- ISDN/Q-SIG feature tunnelling
- ISDN speech, audio and data (Fax Gr 4, UDI 64, RDI 64)
- ISDN supplementary services

Voice Routing—Session Router™

- Local switching
- Interface huntgroups
- ISDN broadcast message routing
- Routing Criteria
 - Interface
 - Calling/called party number
 - Time of day, day of week, date
 - ISDN bearer capability
- Number manipulation functions
 - Replace numbers
 - Add/remove digits
- Multiple remote gateways
- PLAR

IP Routing

- IPv4 router

- RIPv1, v2 (RFC 1058 and 2453)
- Programmable static routes
- ICMP redirect (RFC 792)
- DHCP client/server
- Packet fragmentation
- Static Firewall
 - NAT/PAT/NAPT (RFC 1631)
 - Access control lists

IP Quality of Services

- WFQ/Fixed Rate/Priority Queuing/Flow-split scheduler
- Combination of QoS schemes with configurable burst
- DiffServe/TaS set or queue per header bits
- Packet Policing discards excess traffic
- 802.1p VLAN tagging
- Traffic classification

Management

- Industry standard CLI
- Local console (RS-232, RJ-45) and remote Telnet access
- TFTP configuration down- and upload

- TFTP firmware download
- SNMP v1 agent (MIB II and private MIB)
- Built-in diagnostic tools (trace, debug)
- Java™ Applet
- HPOV Integration with NNM

Operating Environment

- Operating temperature: 0–40°C
- Operating humidity: 5–80% (non condensing)

System

- CPU Motorola MPC750 at 333 MHz
- Memory 32MB SDRAM (160MB max.)/16 MB Flash
- Power: 100–240 VAC (50/60 Hz)
- Power dissipation 30W (fully loaded)

Compliance

- EMC compliance: EN55022 and EN55024
- Safety compliance: EN 50950
- CE compliance
- FCC Part 15 Class A

Model Information

SN2400/0V/UI VoIP Media Gateway router with internal 100–240 VAC power supply

NSW-IAF-4 IP Advanced Feature Set (Q-SIG, QoS, IP Classification)



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