

SmartNode™

The SmartNode 4900 delivers the benefits of VoIP, the convenience of standard FXS analog ports, and full WAN routing features. With up to 32 FXS ports for MTU/MDU, call center, or multiport PBX installations, the IpChannel Bank bridges the gap for converged voice and network services.

Multiport FXS Gateway Router

SmartNode 4900 IpChannel Bank

Patton's SmartNode™ 4900 Series IpChannel Bank is the perfect business solution for applications requiring 12 to 32 concurrent analog voice/fax calls. The IpChannel Bank transforms any PBX system, analog call-center application, or ISP MDU service into a state-of-the-art packet-voice system without requiring costly equipment replacement or upgrades.

The SN4900 Series supports key industry-standard VoIP signaling protocols such as SIP, H.323, and T.38 Fax Relay--plus fax-bypass and modem-bypass. This ensures interoperability with the leading soft switches and VoIP services.

Built-in Quality of Service (QoS) features include voice prioritization and traffic management via configurable service-policy profiles. Patton's advanced DownStreamQoS™ ensures clear, uninterrupted voice--even over best-effort networks such as the Internet. Packet classification using 802.1p, TOS, and DiffServ makes integration with existing managed QoS networks easy.

Create custom security profiles for a comprehensive security environment. IPSec in the SN4900 Series delivers data integrity, authentication, anti-replay and data confidentiality. Firewall capabilities include Access Control Lists (ACLs), IP-address and port filtering, protection against Denial of Service (DoS) attacks, and use of second Ethernet port as DMZ.

Offering easy setup, reliable operation, and third-party interoperability on a proven platform, the SN4900 Series IpChannel Bank sits at the core of cost-effective business solutions. The investment protection you need for the future is here today. For more information, visit us at www.patton.com.

12/16/24 or 32 FXS VoIP Ports

Multiport VoIP media gateway and routing, SessionRouter™, DTMF relay, Caller-ID, Hold, Transfer etc.

Complete VoIP Signaling

SIPv3, H.323v4, T.38, Fax- and Modem Bypass, G.723, G.729, G.726, G.711, echo cancellation, silence compression, comfort noise.

DownStream™ Quality of Service

Advanced adaptive traffic management for maximum voice quality. Voice prioritization and DownStreamQoS™ for bi-directional traffic control.

Full Access Routing

IPv4, RIPv2, ICMP, IGMP, NAT/PAT, Firewall, DHCP, DynDNS, IPSec VPN (optional)

Integrated WAN Uplink

Optional WAN for one-box connection to the network.

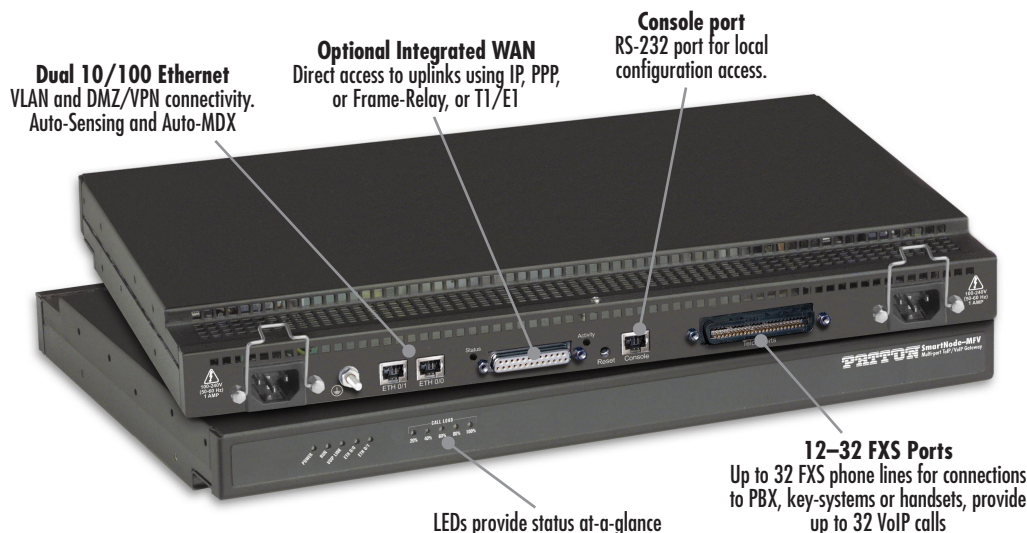
Management & Provisioning

Built-in Web based management, SNMP, Command Line Interface and Auto-Provisioning for automated configuration distribution and software upgrades

PATTON

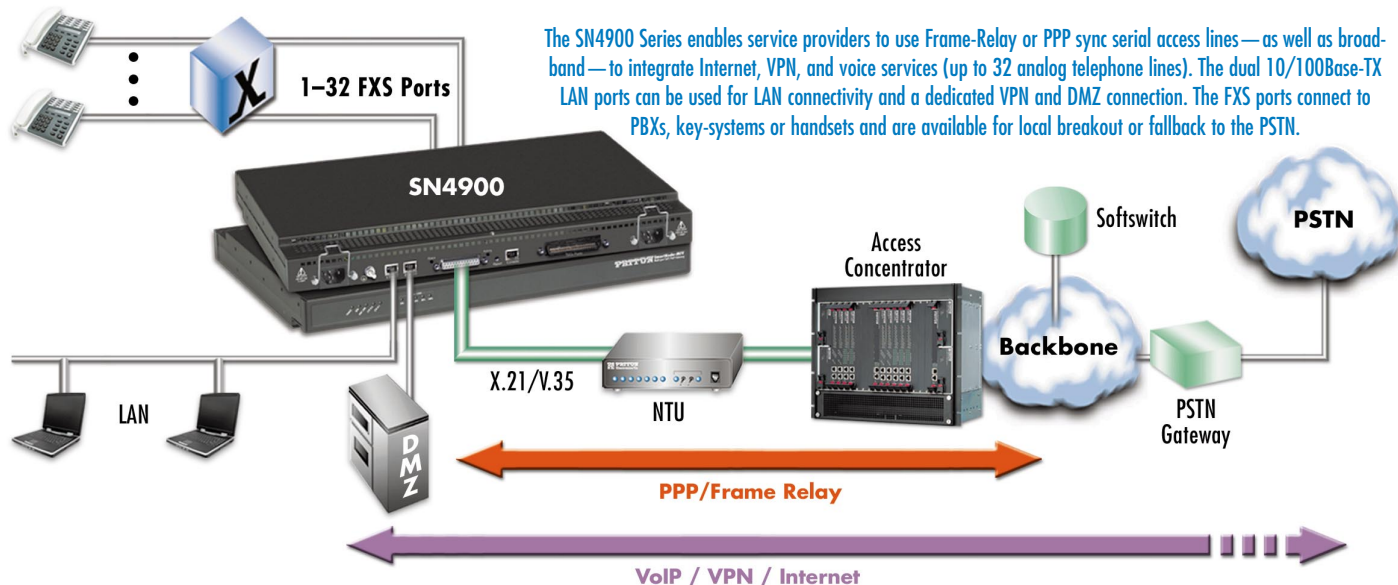


Special Rates Available
Call for Details



SmartNode 4900 IpChannel Bank

Network Integration—Multiservice carrier access over leased lines



Specifications

LAN and IP Services

Dual-port 10/100bTX LAN
Auto-MDIX, Auto-sensing
IPv4, RIPv2, ICMP, IGMP v2/3
Dynamic and static NAT and NAPT
ACL Firewall
DNS client and relay, DynDNS
DHCP Server
SNTP Client
Optional IPSec VPN (DES, 3DES, AES)

WAN Connectivity

X.21 or V.35 WAN
Frame-Relay (8 PVCs)
RFC1490, FRF.12 fragmentation
LMI, Q.933D, ANSI 617D, Gang of Four
PPP, PAP, CHAP, LCP, IPCP

IP Quality of Service

Voice priority
DownStreamQoS™ (Pat.pend)
Traffic Management, shaping, policing

IEEE 802.1p, TOS, DiffServ Labeling

Management

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

Telephony FXS/FXO

12,16,24, 32 FXS 2-wire, loop-start, RJ-11
short haul 500m, 3 REN, 30VRMS
Caller-ID, ITU V.23 and Bell 202
DTMF and pulse dialing
Battery-reversal
DTMF and progress tone detection

Voice over IP Signaling

SIPv3 (RFC3261, 3263)
SIP call transfer, redirect, DTMF relay

H.323v4, H.235 security
Overlap or en-bloc dialing
DTMF in-band, out-of-band
Configurable progress tones

Fax and Modem Support

T.38 Fax over IP (Gr.3 up to 14.4kb/s)
Fax relay and bypass (G.711)
Modem detection and bypass (G.711)

Call Routing & Services

Regular expression number matching
Regular expression number manipulation
Least Cost Routing
Number blocking
Short-Dialing
Digit collection
Distribution- and Hunt- Groups
2nd call offering

Voice Processing

G.711m/A-law
G.723.1 (6.4Kbps)
G.729, 729a, 729ab (8Kbps)
G.726 (16, 24, 32, 40 Kbps)

G.168 echo cancellation (25ms)
Silence suppression and comfort noise
Adaptive and configurable dejitter buffer
Configurable packet length

Power & Packaging

19-in. rack-mount chassis
Dimension: 48.3W x 4.44H x 30.5D cm
Weight: 4.1 kg
Power consumption: 25–50W (model dependent)
Redundant internal power supply: 100–240VAC
(48V DC power supply available on request)

Operating Environment

Operating temperature: 0–50° C
Operating humidity: up to 90% , non condensing

Compliance

FCC Part 15 Class A (US EMC)
CE per RTE 99/5/EC (EMC and LVD)
EN55022, EN55024 (EMC)
EN60950 (Safety)
TBR-21 (FXS)

Ordering Information

SN4912/JSX*/RUI 12 Port FXS
SN4916/JSX*/RUI 16 Port FXS
SN4924/JSX*/RUI 24 Port FXS
SN4932/JSX*/RUI 32 Port FXS

*X = C (X.21 WAN) or D (V.35 WAN)

**Software update or key required.

Options & Accessories

SNSW-VPN1 License Key for IPSec**

Note: FXS connection cables are not included. Please specify type of desired cable.

The terms SmartNode, DownStreamQoS and SessionRouter are trademarks of Patton Electronics Co. Specifications set to change without notice.

Some specifications described may not be available for all models at time of printing.



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