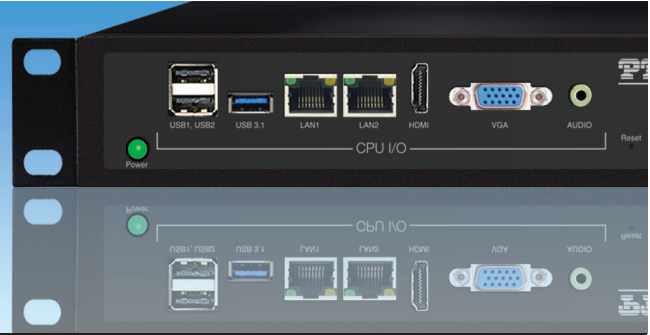


# SmartNode™ Open Gateway Appliance



*This open hardware platform, with its integrated VoIP Gateway, is ready for the operating system, IP-PBX, or Unified Communications software of your choice.*

## Integrated miniITX Server

- Standard platform
- Flexible options

## Supports Any Operating System

*Including Windows or any flavor of Linux.*

## Fully Customizable

*Useful for a variety of communication software IP-PBXs, IVR solution, routers, session border controllers, call recording, or call accounting.*

## Monitoring and Management

*Leverage the Patton EMS system together with your preferred software on the SmartNode Open Gateway Appliance to be monitored and managed.*

## Provisioning

*Using the Patton Redirection Service, the Open Gateway Appliance can be provisioned with zero touch at the customer site.*

## Fits Your Network

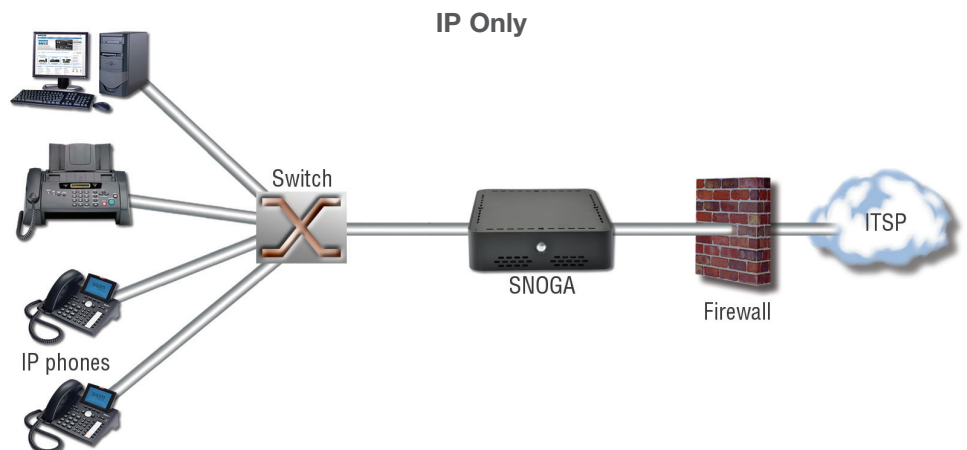
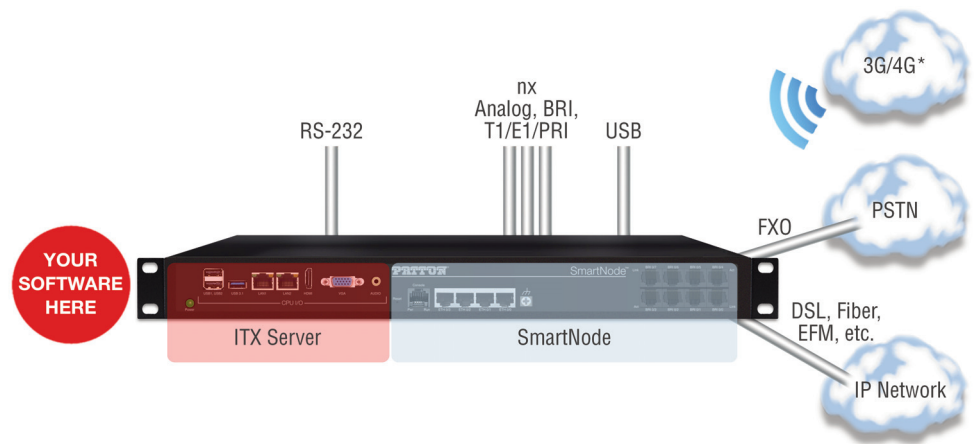
**BYOP (Bring your own phone)**—Choose your own hardware, whether it is IP phones or softphones, computers, tablet computers, mobile phones; no vendor lock-in..

**Keep Your Existing Equipment**—Built-in gateway connects existing telephony equipment.



**SIP Trunks or PSTN**—Save on monthly call costs using SIP Trunks or receive and make calls via the standard PSTN.

Patton's SmartNode Open Gateway Appliance (SNOGA) enables industry peers or integrators to simply buy the unit and install their software of choice, or partner with Patton to create a custom OEM solution for any number of applications. With the ability to run any IPPBX, IVR solution, router, SBC, call recorder, or call accounting software, alongside any one of Patton's robust Gateways, the SNOGA opens the door to endless possibilities and customer satisfaction, every time.

The Open Gateway Appliance is a convenient "one box" solution. With the built-in VoIP Gateway, the Open Gateway Appliance eliminates the interoperability obstacles for companies that want to keep their legacy trunks and equipment including PBXs, phones, fax equipment and POTS lines. Configuration options include a range of analog FXS/FXO and/or ISDN BRI/PRI gateways coupled with the industry standard miniITX PC board.



# SmartNode™ Open Voice Gateway Options

		Option 1	Option 2	Option 3	Option 4
		 <p style="text-align: center;"><b>TDM &amp; IP</b></p>		 <p style="text-align: center;"><b>IP Only</b></p>	
ICPU	<b>Processor</b>	Intel Celeron J1900 Quad Core 2.0 GHz	Intel i5 Quad Core 3.5 GHz*	Intel Celeron J1900 Quad Core 2.0 GHz	Intel i5 Quad Core 3.5 GHz*
	<b>Memory</b>	Up to 8 GB DDR3L	Up to 16 GB DDR3	Up to 8 GB DDR3L	Up to 16 GB DDR3
	<b>Ethernet</b>	4–6 Gigabit Ethernet (depending on model)	4–6 Gigabit Ethernet (depending on model)	Gigabit Ethernet x 2	Gigabit Ethernet x 2
	<b>Storage</b>	250 GB HDD or SSD	250 GB HDD or SSD	250 GB HDD or SSD	250 GB HDD or SSD
	<b>USB</b>	USB 3.0 x 1 USB 2.0 x 2	USB 3.0 x 4	USB 3.0 x 1 USB 2.0 x 2	USB 3.0 x 4
	<b>Display</b>	HDMI x 1 VGA x 1	HDMI x 1 Display Port x 1	HDMI x 1 VGA x 1	HDMI x 1 Display Port x 1
	<b>Operating Temperature</b>	32 ~ 140°F (0 ~ 60°C)	32 ~ 140°F (0 ~ 60°C)	32 ~ 140°F (0 ~ 60°C)	32 ~ 140°F (0 ~ 60°C)
	<b>Operating Humidity</b>	0 ~ 90% RH, non-condensing	0 ~ 90% RH, non-condensing	0 ~ 90% RH, non-condensing	0 ~ 90% RH, non-condensing
	<b>Power</b>	12 VDC	12 VDC	12 VDC	12 VDC
	<b>Power Compliance</b>	Compliant with EuP/ErP	Compliant with EuP/ErP	Compliant with EuP/ErP	Compliant with EuP/ErP
	<b>Certificate</b>	CE & FCC	CE & FCC	CE & FCC	CE & FCC
Gateway	<b>BRI</b>	2/4/8 ports Up to 16 channels			
	<b>Analog</b>	Up to 8 FXS Up to 4 FXO Up to 4 FXS and 4 FXO		N/A	N/A
	<b>T1/E1</b>	1 or 4 E1/T1 ports Up to 120 channels			

\* LGA 1150 socket for Intel 4<sup>th</sup> generation Core i Series.

\*\* Patton bench test

\*\*\* Additional charge for licensed features

# SmartNode™ Open Voice Gateway Specifications

## Capacity\*\*

- 64 calls with Transcoding
- 128 calls with RTP Relay
- 20 cps

## Gateway Capacity

Up to 120 (PRI), 16 (BRI), 8 (FXS) simultaneous VoIP or T.38 fax calls (depending on the model).

## BRI Voice Connectivity

- 2/4/8 BRI So ports, RJ-45
- NT/TE configurable per port
- Built-in line power on each port (total 4W)
- DSS1, Q.921, Q.931. NTT-64
- Point-point and point-to-multipoint
- Optional QSIG support\*\*\*

## FXS/FXO Voice Connectivity

- Up to 4 FXS and FXO ports
- 2-wire Loopstart on RJ-11/12
- Short haul loop 1.1km @3REN
- EuroPOTS (ETSI EG201188)
- Programmable AC impedance, feeding, ring and on-hook voltage
- Caller-ID FSK and ITUV.23/Bell 202 generation
- FSK & stuttering dial tone MWI

## PRI Voice Connectivity

- 1 or 4 T1/E1 PRI port(s) (NT/TE)
- Signaling support (ISDN DSS-1, NI-2, Q.SIG, CAS Robbed bit loop and ground start, E&M, immediate, wink, double wink)
- ISDN AOC/ECT
- ISDN speech, audio & data (Fax Gr 4, UDI 64, RDI64)
- ISDN supplementary services
- CAS protocols: RBS (Loop start, ground start, E&M wink, intermediate, double-wink) and R2/MFC-R2 (Q.400–Q.490 and Configurable country profiles)

## LAN/WAN Connectivity

- 2 x 10/100/1000 TX Ethernet ports or 4 x 10/100Base-T Ethernet ports (depending on the model)
- Auto-MDI-X • DHCP Client
- PPPoE Client (multi-session)

- IP Multi-Netting access control lists • DMZ port

## Voice Processing

- Codec G.711 a-law/mu-law, G.723, G.729ab, G.726, G727, T.38 fax relay (9.6 k, 14.4 k)
- G.711 transparent fax and bypass
- Transcoding for up to 12/15 channels (depending on model)

## Call Routing and Services

- Regular expression call routing and manipulation
- Number blocking
- Short-dialing
- Digit collection, distribution and hunt groups

## IP Quality of Service

- Voice priority
- Traffic management
- IEEE 802.1p, TOS, DiffServ labeling
- IEEE 802.1Q, VLAN tag insertion/deletion 4,096

## Management

- Web/HTTP, CLI with local console & remote Telnet access
- TFTP configuration & firmware loading
- SNMP MIB II and product MIB
- Secure auto provisioning for firmware & unit/subscriber configuration
- Built-in diagnostic tools (trace, debug, call generator)

## Operating Environment

- Operating Temperature: 32 to 104° F (0 to 40°C)
- Operating Humidity: up to 90%, non-condensing

## Dimensions

- 19W x 1.7H x 12D in. (48.3W x 4.4H x 30.5L cm)
- Rack mountable chassis

## Compliance

- EMC: EN55022 and EN5502
- Safety: EN 60950
- CE
- FCC Part 15 Class A; Part 68; CS-03

## Ordering Info

All Patton SNOGAs are customizable, for a full list of available SmartNodes and port configurations, go to [www.patton.com/smartnode](http://www.patton.com/smartnode).

Obtain ordering info for this product by using the QR code at right or by contacting:

- web: [http://www.patton.com/products/product\\_detail.asp?id=494&tab=Ordering](http://www.patton.com/products/product_detail.asp?id=494&tab=Ordering)
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