

NetBorder™ SS7 VoIP Media Gateway



Media Gateways



- ✓ All-in-one turnkey solution
- ✓ SS7 ISUP (including several national variants)
- ✓ Up to 16 SS7 Signalling links
- ✓ SIP RFC3261
- ✓ H.248 (Megaco)
- ✓ SIGTRAN M2UA
- ✓ H.323
- ✓ Supports a wide range of VoIP and wireless codecs
 - G.711 • G.723.1
 - G.726 • iLBC
 - G.729AB • GSM
 - G.722 • AMR
 - G.722.1
- ✓ Sophisticated call routing via XML scripts
- ✓ Management
 - Web GUI
 - CLI
 - Statistics/logs
 - PCAP Protocol Capture for analysis via Wireshark
 - RADIUS Protocol
 - SNMP for Layer 1 reporting
- ✓ Distributed architecture and signalling relay
- ✓ 1U Form factor for up to 8 E1/T1s
- ✓ 2U Form factor for up to 32 E1/T1s
- ✓ Rack mountable
- ✓ AC/DC power options

Sangoma's NetBorder SS7 VoIP Gateway is a feature-rich, cost-effective solution.

SS7 TO VOIP GATEWAY APPLIANCE

The NetBorder SS7 to VoIP Gateway allows telecom service providers to introduce VoIP in their networks with transcoding capabilities.

The appliance is provided in 2 form factors:

1U	4 E1/T1	
	8 E1/T1	
2U	16 E1/T1	
	32 E1/T1	

The solution supports up to 32 E1/T1 per appliance. For installations up to 256 E1/T1, distribution across multiple servers using the signalling relay feature provide maximum flexibility to support growth.

FEATURES & BENEFITS

Feature	Benefit
Supports a wide range of SS7 PSTN protocols and variants	Provides maximum flexibility during implementation
Compact all-in-one design	Minimize footprint and the need to source components from multiple vendors
SIGTRAN M2UA	Enables better use of NSG as a distributed solution across multiple points of presence where SS7 Interconnect is required
MEGACO	Allows better control over the NSG by softswitches that utilize this industry standard protocol
M2UA & MEGACO	Enables maximum flexibility in large network deployments of the NSG
SNMP & Radius	Allows monitoring and management of NSG via both of these industry standards
H.323	Enables backward compatibility with older VoIP networks – no need for additional devices for interoperability

CONTINUE READING »

TECHNICAL SPECIFICATIONS

PSTN Protocols:

- SS7-ISUP
 - » ITU, ANSI, Bellcore, UK, China, India, France, and Russian variants
- Up to 16 A or F signalling links
- Up to 16 Originating Point Codes
- Up to 16 Destination Point Codes
- Up to 16 Linksets
- ISUP relay for larger configurations

PSTN Interfaces:

- Up to 32 E1/T1 (960 ports) per server, available in these configurations:
 - » 4 E1/T1 in 1U appliance
 - » 8 E1/T1 in 1U appliance
 - » 16 E1/T1 in 2U appliance
 - » 32 E1/T1 in 2U appliance
- Extend capacity over 960 ports and single server via ISUP relay feature
- RJ-48 Connectors

VoIP Protocols:

- SIP V2/RFC3261 • Megaco/H248
- SIGTRAN M2UA RFC 3331 • H.323
- SCTP RFC 2960

Network Interfaces:

- 1U/2U Appliances
 - » 2 RJ-45 Ethernet ports
 - » 4 USB ports

Video:

- 1 DVI output port

Call Routing:

- Configurable and extendable XML-based dial plan and routing rules

AC Power:

- 250W universal for 1U solution
- 350W universal for 2U solution
- DC 400W -48V for 2U (Special Order)

Dimensions:

- 1U : 480.4(W) x 474(D) x 44(H) mm; 19”(W) x 18.7”(D) x 1.7”(H)
- 2U: 482(W) x 441.6(D) x 88.4(H) mm; 19”(W) x 17.4”(D) x 3.5”(H)

Media Processing:

Transcoding:

- Wide range of codecs support via Sangoma transcoding hardware (D100/D150/D500):
 - » G.711 » G.723.1
 - » G.726 » iLBC
 - » G.729AB » GSM
 - » G.722 » AMR
 - » G.722.1
- T.38 Fax Relay

Echo Cancellation:

- G.168-2002 with 128ms tail

DTMF Detection and Generation:

- RFC2833 Tone relay
- In-band
- DTMF detection and generation

Management and Configuration:

- Web GUI
- Command line interface
- Call detail records in XML format
- Detailed logs with configurable filesize & auto-rotation
- SNMP
- Radius

Support and Professional Services:

Whether you need technical support and software maintenance, training, consultation and installation services, Sangoma can help you. Contact your Sales representative for more information.

Warranty:

Standard 12-month warranty is included. Additional warranty services available, contact your Sales representative for more information.

ORDERING

SKU	Spans	Protocols	Signalling links	Point codes
SS7-NSG-AP04	4	ISUP, SIP, M2UA, Megaco	4	16
SS7-NSG-AP08	8		8	
SS7-NSG-AP16	16		16	
SS7-NSG-AP32	32		32	