NetBorder™
SS7 VoIP
Media Gateway

FEATURES

☑ **All-in-one turnkey solution**

☑ **SS7 ISUP** (including several national variants)
- ITU
- ANSI
- Bellcore
- UK
- China
- India
- Russia
- France (Spirou)

☑ **SIP RFC3261**

☑ **1U Form factor for up to 8 E1/T1s**

☑ **2U Form factor for up to 32 E1/T1s**

☑ **Support of 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**
- CLI
- Web GUI
- Statistics/logs

☑ **Distributed architecture and signalling relay**

Sangoma's NetBorder SS7 VoIP Gateway is now offered in an elegant, self-contained, and cost-effective appliance.

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	For up to 8 E1/T1	
2U	For up to 32 E1/T1	

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

BENEFITS

- Wide range and support of SS7 PSTN protocols and variants
- Elegant and cost-effective all in one appliance
- Robust implementation with distribution, failover and redundancy

APPLICATIONS

- Alternative carrier solutions
  » Least-cost routing
  » SIP–SS7 interworking
- ISUP-based caller ring back tone
- Pre-paid and overseas dialing

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TECHNICAL SPECIFICATIONS

PSTN Protocols:
- SS7-ISUP
  » ITU, ANSI, Bellcore, UK, China, India, France, and Russian variants
- Up to 32 signalling links
- Up to 12 point codes and 16 link sets
- ISUP relay for larger configurations

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

Network Interfaces:
- 1U Appliance
  » 2 RJ-45 Ethernet ports
  » 4 USB ports in the back
- 2U Appliance
  » 2 RJ-45 Ethernet ports
  » 4 USB ports
    - 2 in the front
    - 2 in the back

Video:
- 1 DVI output port

VoIP Protocols:
- SIP V2/RFC3261

Call Routing:
- Configurable and extendable XML-based dial plan and routing rules

AC Power:
- 250W universal for 1U solution
- 350W universal for 2U solution

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.726
  - G.729AB
  - G.722
  - G.722.1
  - G.723.1
  - iLBC
  - GSM
  - AMR

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 user configurable file size and auto-rotation

Support and Professional Services:
Sangoma engineers are here to support your success. 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	DESCRIPTION
SS7-NSG-AP04	Up to 4 E1/T1, ISUP to SIP, codec support, 4 signalling links, up to 12 point codes
SS7-NSG-AP08	Up to 8 E1/T1, ISUP to SIP, codec support, 8 signalling links, up to 12 point codes
SS7-NSG-AP16	Up to 16 E1/T1, ISUP to SIP, codec support, 16 signalling links, up to 12 point codes
SS7-NSG-AP32	Up to 32 E1/T1, ISUP to SIP, codec support, 32 signalling links, up to 12 point codes

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