Sangoma’s NetBorder SS7 VoIP Gateway is a feature-rich, cost-effective solution that allows Telecom service providers to introduce VoIP in their networks with transcoding capabilities.

The appliance is available in two form factors:

<table>
<thead>
<tr>
<th>Form Factor</th>
<th>E1/T1 Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1U</td>
<td>4 E1/T1</td>
</tr>
<tr>
<td></td>
<td>8 E1/T1</td>
</tr>
<tr>
<td>2U</td>
<td>16 E1/T1</td>
</tr>
<tr>
<td></td>
<td>32 E1/T1</td>
</tr>
<tr>
<td></td>
<td>64 E1/T1</td>
</tr>
</tbody>
</table>

The solution supports up to 64 E1/T1s per appliance. For installations up to 256 E1/T1s or for STM-1/OC-3, distribution across multiple servers using the signalling relay feature provide maximum flexibility to support growth.

**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
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 64 E1/T1 (1820 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
  - 64 E1/T1 in 2U appliance
- Extend capacity over 1820 ports and single server via ISUP relay feature
- STM-1/OC-3
- RJ-48 Connectors

VoIP Protocols:
- SIP V2/RFC3261
- SIGTRAN M2UA RFC 3331
- 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 file size & 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

<table>
<thead>
<tr>
<th>SKU</th>
<th>Spans</th>
<th>Protocols</th>
<th>Signalling links</th>
<th>Point codes</th>
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