

The Windows-based STINGA product family covers a wide range of stand-alone protocol analyser and simulator products. Both notebook and desktop-based solutions are available. Protocol stacks like SS7oTDM (E1/T1/J1), SS7oIP, SIP, SIP-T, SIGTRAN, BICC, V5.1/V5.2, ISDN PRA, ISDN BRA, DPNSS/DASS2, Megaco/H.248, MGCP and PNNI are supported.

The STINGA SS7 Simulator product is a protocol simulator/tester for SS7 simulation over TDM (E1/T1/J1) and SS7 simulation over IP through SIGTRAN (SCTP/M3UA).

These products are suitable for SSP, STP, SCP, SGP, and ASP simulation, intelligent network testing, mobile testing, error tracking, interconnect testing, regression testing, conformance testing, load testing/call generation and more.



## FEATURES

- SS7 simulation over TDM (E1/T1/J1) and IP (M3UA/SCTP)
- Multiple E1/T1/J1 line interfaces supported
  - Auto detect layer 1 & layer 2 settings
  - MTP2 protocol machine
  - Multiple MTP links
  - Automatic handling of MTP2 and SMH
- SCTP and M3UA protocol machines
  - Simulating an SGP handling several ASPs
  - Simulating one or more ASPs
  - Multiple routing keys
  - Scriptable handling of M3UA endpoints
  - Scriptable handling of SCTP associations
  - Multiple SCTP associations
  - Multiple SCTP streams
  - CRC-32c and Adler-32 checksum support
- Script-based testing
- Script Editor and Parameter Builder
- Automatic response to incoming messages
- Conformance Test Suite Framework
- Voice input/output through PC microphone/speakers
- DTMF generator/detector (GUI and scripted)
- ITU, ANSI, Japan TTC, Chinese ITU and national protocol standards supported
- Application Programming Interface (API)
- E1/T1/J1 PCMCIA and PCI cards available
- Running on Windows Vista/XP/2003 Server/2000

## SPECIFICATIONS

- E1/T1/J1 interfaces
  - E1/T1/J1 alarm signals and link status
  - MTP (ITU, ANSI, Japan TTC, Chinese ITU)
- Ethernet interfaces
  - Ethernet
  - IP
  - SIGTRAN (SCTP, M3UA)
- ISUP (ITU, ANSI, Japan TTC, UK)
- TUP (ITU, Chinese ITU, SSUTR2, IUP)
- SCCP (ITU, ANSI, Japan TTC, Chinese ITU)
- TCAP (ITU, ANSI)
- INAP (INAP CS1, INAP CS2, Alcatel Core INAP, Ericsson Core INAP, Siemens INAP: SINAP5 and SINAP7, Alcatel INAP CS1+, Ericsson INAP CS1+, British Telecom INAP CS1+, Ericsson Light Weight INAP)
- CAP
- MAP
- SMS
- IS-41/ANSI-41
- IS-826
- IS-848
- Supplementary Services

## SOFTWARE & HARDWARE

20551: STINGA SS7 Simulator (SS7oTDM)  
20561: STINGA SS7 Simulator (SS7oIP)

20135: PIST-2MP-PRO PCMCIA, 2xE1/T1/J1  
20430: PIST-2MI+ PCI, 2xE1/T1/J1  
20440: PIST-4MI+ PCI, 4xE1/T1/J1  
20125: PIST-8MI+ PCI, 8xE1/T1/J1

20210/20211: Impedance Converter (75-120ohm)



## CONTACT INFORMATION

### Utel Systems

Televeien 9  
4879 Grimstad  
Norway

Tel: +47 37046192  
Fax: +47 37046191

Email:  
[sales@utelsystems.com](mailto:sales@utelsystems.com)

Website:  
<http://www.utelsystems.com/>

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