



# 945RTS Platform Specifications

## Description

The Sage 945RTS is a complete telecommunications trunk test system in a compact, modular, rack-mount package. The 945RTS remotely performs on-demand and automatic testing on TDM and VoP networks. One 945RTS supports up to 32 simultaneous test sessions.



## Standard Test Server

### Standard Equipment

1 CPU  
UNIX OS  
20 GB HD  
-48 volts DC power supply  
LAN interface

### Scalability

Nine expansion slots available for test resources and/or dual T1/E1 access cards  
Mounting shelf fits two 945RTS units in 5RU X 19" rack space

## Test Capabilities

### Voice Band Testing

VF transmission tests (level, noise, return loss)  
Complete suite of TIMS tests, per IEEE 743, for Fax/Modem circuit qualification

### Telcordia GR-822 Voice Band Directors & Responders

Type 100 near/far end (Quiet Termination)  
Type 102 near/far end (Milli-Watt)  
Type 105 near/far end (ROTL)  
Type 108 near/far end (Loopback, BERT)

### Echo Canceller Tests

ATME Director & responder (ITU-T O.22)  
Echo Sounder  
Echo Generator  
Absolute delay

## Next Generation Tests

### SMOS VQ Suite and Test line

MOS Score, Round Trip Delay  
Codec Type, Effective Bandwidth  
Frame Slips, Audio Level Change  
Comfort Noise  
Call Completion time

### Packet Voice Impairment Test

Voice frame loss  
Voice frame slips  
Voice clipping  
Comfort noise

## Digital Testing

### DS0

DDS, Switched 56 and 64 Kbit  
BERT, loop up, loop down

### DS1 and E1

BERT, loop up, loop down  
DCS TAD/FAD interface

## Additional Features

DTMF, DP, MF signaling  
DCS interface and control  
Remote audio  
Automated Trunk Routing Application

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## Sage 945RTS Specifications, Continued

### Processor Board

Intel Processor  
One Ethernet port  
One serial port  
SVGA port  
PS/2 mouse and keyboard

### Operating System

SCO OpenServer UNIX 5.X (5-User License)  
Additional user licenses available

### Drive Capacity

20 GB

### Bus

10 slot standard ISA/PCI  
Passive backplane

### Alarm/System Management

Form-C Alarm Relay System  
Multiple In-Band and Out-of-Band options

### Power Supply

-48 VDC  
120/240 VAC 50/60 Hz available

### Rear Panel Connections

One DB-15HD SGVA video  
One PS/2 keyboard  
One PS/2 mouse  
One DB-9 serial port (two DB-9 available\*)  
Five RJ45 T1 ports  
Eight RJ45 for T1, 10/100BASE-T, or Token Ring  
One terminal block alarm

### Rack Mounting

Mid-mount for 19" and 23" standard racks  
Flush Mount\*, Quick disconnect system  
One shelf accommodates two Sage 945RTS units

### Cooling

Two 17 CFM (0.5 m<sup>3</sup>/min)  
One 43 CFM (1.2 m<sup>3</sup>/min)  
50,000-hour ball bearing ventilation fans allow no more than 10°C rise above ambient temperature

### Weight

14.9 lbs. (6.76 kg) with power supply, fan, backplane, and faceplate

### Dimensions

5 RU (H)  
8.75" (H) x 8.75" (W) x 16.91" (D),  
17.9" (D) with handle  
22 cm (H) x 22 cm (W) x 43 cm (D),  
45 cm (D) with handle

### Compliance

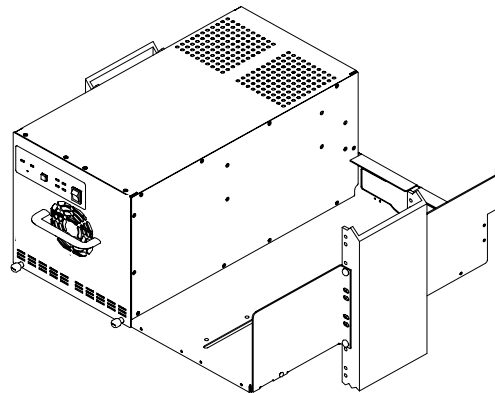
**Safety:** UL 1950, CSA C22.2 No. 950  
IEC 60950/EN 60950

**Emissions:** FCC Part 15, Class A  
EN 55022/CISPR 22 Class A  
IEC 61000-3-2 Harmonics  
IEC 61000-3-3 Flicker

**Immunity:** IEC 61000-4-2—ESD  
IEC 61000-4-3—Radiated RF  
IEC 61000-4-4—EFT

**Certifications:** UL, C-UL, CE

**NEBS:** Level 3 compliant



**Quick Disconnect Mounting System**