



Agilent E6567C cdma2000/IS-95/AMPS/1xEV-DO Wireless Test Manager

Product Overview

Reduce wireless devices
test cost for manufacturing
by using powerful, easy-to-
use test automation software



Tests Supported

CDMA call processing

- MEID supported (Yes/No)
- Public long code mask type (ESN based, BS assigned, MEID based)
- Registration
- Page (base station origination)
- MS (mobile station) origination
- Base station release
- Voice quality analog quick audio functionality
- Talk time
- IMT-2000, Japan CDMA, NMT-450, Korean PCS, US PCS, and US cellular bands
- Hard handoffs (system, band, channel and PN offset)

CDMA transmitter tests

- Waveform quality
- Code domain power
- Traffic channel open loop power control
- Closed loop power control
- Time response of open loop power control
- Maximum RF output power
- Minimum controlled output power
- Access probe open loop power
- Gated power
- Code channel timing and phase error
- Transmitter spurious emissions
- Handoff waveform quality
- Code channel power accuracy
- Spurious emission

CDMA receiver tests

- Traffic channel FER with AWGN
- Supplemental channel FER with AWGN
- Receiver sensitivity FER
- Receiver sensitivity level search

CDMA Rx/Tx tests

- Quick general test

AMPS transmitter tests

- Frequency error
- RF power output
- Audio frequency response
- Audio distortion
- FM hum and noise
- SAT deviation and frequency error
- Compressor response
- Analog DTMF
- Analog signaling tone

AMPS receiver tests

- SINAD
- Audio frequency response
- Audio distortion
- Hum and noise
- Expander response

1xEV-DO calling processing

- Open/end session
- Open data connection
- IMT-2000, Korean PCS, US PCS, and US cellular bands
- Handoff (interband and channel)

1xEV-DO transmitter test

- Waveform quality
- Code domain accuracy
- Transmitter spurious emissions
- Data, RRI, DRC, and ACK channel output power
- Maximum output power
- Access probe open loop power
- Minimum controlled output power
- Closed loop power control
- Time response for open loop power control

1xEV-DO receiver tests

- Traffic channel PER with AWGN
- Receiver sensitivity and dynamic range

General tests

- Current drain
- Start loop
- End loop
- Send/Receive GPIB command



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Hardware Supported

Test instruments

- Agilent 8960 Series 10 Wireless Communications Test Set
 - E5515C mainframe (or equivalent E5515B/T) with Option 003
 - E1962B cdma2000/IS-95/AMPS Mobile Test Application (revision B.10.00 or later)
 - E1966A 1xEV-DO Test Application (revision A.05.00 or later)
 - E1987A GSM/GPRS/EGPRS, AMPS/136, cdma2000, 1xEV-DO, W-CDMA Fast Switching Mobile Test Application (revision A.03.00 or later)
- Also compatible with:
 - E6702B cdma2000 Lab Application (revision B.03.00 or later)
 - E6706A 1xEV-DO Lab Application (revision A.01.10 or later)
- Agilent 66311B, 66319B, and 66321B power supplies
- Agilent 34970A with 34901A, 34903A, and 34907A data acquisition/switch unit

Fixtures

- Tescom TC-5941, TC5942, and TC-5952B

Adapters

- Agilent 82357A USB/GPIB interface
- National Instruments GPIB-USB-A external controller

PC cards

- Agilent GPIB
- National Instruments GPIB
- Advantech PCI 1750 digital I/O
- Control RocketPort 95870-3 and 99096-3 multi-port serial card

Peripherals

- Symbol LS-1220-1200A fixed bar code reader
- Symbol LS-3603MX-1200A, P300FZY, and LS40041-I100 handheld bar code reader
- HP printers
- Epson TM-U200D and TM-U220D strip printer

PC requirements

- Operating system: Microsoft® Windows XP Professional® Service Pack 1, Windows 2000® Professional Service Pack 4
- Microsoft Visual Studio .NET®
- Microsoft Internet Explorer® Version 5.0 or later
- 600 MHz Pentium® III or higher (1 GHz Pentium III or higher for extended capability)
- 256 MB RAM minimum (512 MB is recommended for normal development and is required for extended capability operation)
- 200 MB free hard drive space
- CD-ROM
- GPIB card or converter with VISA drivers (one per test system)
- USB port for security key connection
- Serial ports for fixtures, device control, and bar code reader
- Compatible with E6571A and E6571C Wireless Test Manager Run-Time License

Order Information

- E6567C cdma2000/IS-95/AMPS/1xEV-DO Wireless Test Manager
- Option 100 Development and Run-Time license with software

For more information

E6567C wireless test manager specifications and product literature are available at www.agilent.com/find/e6567c

8960 test set specifications, product literature, application notes and configuration guide are available at www.agilent.com/find/8960

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