

Agilent E6567E cdma2000/1xEV-D0/LTE Wireless Test Manager

Product Overview

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

Tests Supported

LTE transmitter tests

- · LTE maximum power reduction
- LTE minimum output power
- LTE frequency error
- LTE error vector magnitude
- · LTE carrier leakage
- LTE EVM equalizer spectrum flatness
- · LTE occupied bandwidth
- · LTE spectrum emission mask
- LTE adjacent channel leakage power ratio

LTE receiver tests

- LTE reference sensitivity level
- LTE maximum input level
- LTE tiered Rx sensitivity search
- · LTE tiered Rx sensitivity search at UE power

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, AWS, US cellular, Upper 700 MHz, 400 MHz European PAMR, and 800 MHz PAMR bands
- · Hard handoff (system, band, channel, and PN offset)
- · CDMA AMPS interband handoff

CDMA transmitter tests

- Waveform guality
- · 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
- · Expandor response

1xEV-DO calling processing

- (Applies to Release 0, A, and B)
 - · Open/end session
- Open data connection
- IMT-2000, Japan CDMA, NMT 450, Korean PCS, US PCS, AWS, US cellular, Upper 700 MHz, 400 MHz European PAMR, and 800 MHz PAMR bands
- · Handoff (interband and channel)
- · CDMA AMPS interband handoff



1xEV-D0 transmitter test

(Applies to Release 0, A, and B)

- · 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

(Applies to Release 0, A, and B)

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

General tests

- · Current drain
- Start loop
- End loop
- · Send/Receive GPIB command
- Data analyzer
- Send/Receive DUT command
- · Agilent 14565B device characterization software control

Hardware Supported

Test instruments

- E6621A PXT wireless communications test set
- N6051A LTE RF parametric test with test mode signaling
- 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.15.18 or later)
- E1966A 1xEV-D0 test application (revision A.10.18 or later)
- E1987A GSM/GPRS/EGPRS, AMPS/136, cdma2000, 1xEV-DO, W-CDMA fast switching mobile test application (revision A.09.21 or later)
- Agilent 66311B, 66319B, and 66321B power supplies
- Agilent 34970A with 34901A, 34903A, and 34907A data acquisition/switch unit

Fixtures

Tescom TC-5941, TC-5942, 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-U200D strip printer

PC requirements

- Operating system: Microsoft[®] Windows[®] 7 Professional and Enterprise
- 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 drives (one per test system)
- USB port for security key connection
- · Serial ports for fixtures, device control, and bar code reader

Order Information

- E6567E cdma2000/1xEV-D0/LTE Wireless Test Manager
- · Option 100 development and run-time license with software
- Option 200 development and run-time software upgrade (upgrades to the latest E6567E version)

For More Information

E6567E Wireless Test Manager specifications and product literature are available at

www.agilent.com/find/e6567e

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

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