



# Agilent E6568B W-CDMA/GSM/GPRS Wireless Test Manager

## Product Overview

**Powerful, easy-to-use test automation software for design and manufacturing helps you get multi-format GSM/GPRS and W-CDMA wireless devices released and into volume production fast**

### Test Supported

#### W-CDMA call processing

- Mobile registration
- Base station (BS) originated call
- Mobile station origination
- BS release
- Hard handoff (channel)
- W-CDMA to GSM handoff

#### W-CDMA transmitter tests

- Maximum output power
- Frequency error
- Minimum output power
- Occupied bandwidth (OBW)
- Spectrum emission mask (SEM)
- Adjacent channel leakage power ratio (ACLR)
- Error vector magnitude (EVM)
- PRACH Tx On/Off power
- Inner loop power control
- Open loop power control

#### W-CDMA receiver tests

- BER

#### GSM/GPRS call processing

- GSM page (base station) origination
- GSM MS (mobile station) origination
- GSM end call (base station release)
- GPRS Start/End connection
- GPRS ETSI A, ETSI B, and Agilent BLER test modes
- PGSM, EGSM, DCS, PCS, RGSM, 450 MHz, 480 MHz, 750 MHz, and 850 MHz bands
- Channel and band changes
- Change downlink traffic power
- GSM handover
- GPRS handover



#### GSM/GPRS transmitter tests

- Output RF spectrum
- Phase and frequency error
- Power versus time
- Tx power
- Power versus level (GSM only)
- Burst timing error

#### GSM receiver tests

- Fast BER
- BER
- Rx level and quality report

#### GPRS receiver tests

- BER
- BLER
- BLER report

#### GSM/GPRS Rx/Tx tests

- Fast general

#### General tests

- Current drain
- GSM/GPRS Tx current drain at level
- Voice quality



## Hardware Supported

### Test instruments

- Agilent 8960 Series 10 wireless communications test set
- E5515C mainframe (or equivalent E5515B/T) with Options 002 and 003
- Any combination of test applications
  - E1963A W-CDMA mobile test application (revision A.03 or later)
  - E1985B GSM/GPRS\_AMPS/136\_W-CDMA fast switching (revision A.03 or later)
  - E1968A GSM/GPRS mobile test application (revision A.01 or later), also compatible with any combination of lab applications
    - E6703A W-CDMA lab application
    - E6701C GSM/GPRS lab application
    - E6785A GSM/GPRS\_W-CDMA lab application
- Agilent 66311B, 66319Bv, and 66321 power supplies
- Agilent 34970 with 34901A, 34903A, and 34907A data acquisition/switch unit

### Fixtures

- Agilent E8421A wireless test fixture
- Tescom TC 5941 and TC 5942

### Adapters

- Agilent 82357A USB/GPIB interface
- National Instruments GP-IB-USB-A USB to GP-IB

### PC cards

- Agilent GPIB
- National Instruments GPIB
- Advantech PCI 1750 digital I/O
- Pocket 9870-3 multi-port serial

### Peripherals

- Symbol LS-12220-1200A fixed bar code reader
- Symbol LS-3603MS-1200A handheld bar code reader
- HP printers
- Epson MT-U200D strip printer

### PC requirements

- Microsoft® Windows XP® Professional, 2000®, NT® 4.0 or 98 Second Edition
- Microsoft Visual Basic® 6.0, Service Pack 5<sup>1</sup>
- Microsoft Internet Explorer® Version 5.0 or later
- 500 MHz Pentium® III or higher
- 256 MB RAM recommended, 128 MB RAM minimum
- 200 MB free hard drive space
- CD-ROM
- GPIB card or converter with VISA drivers (one per test system)
- Parallel port for security key (IEEE 1284, IETF 1287)
- Serial ports for fixtures, device control, and bar code reader
- Compatible with E6571A Wireless Test Manager Run-Time License

## For More Information

E6568B wireless test manager product literature is available at

[www.agilent.com/find/E6568B](http://www.agilent.com/find/E6568B)

A demonstration and information on other wireless test manager products are available at

[www.agilent.com/find/wtmanagers](http://www.agilent.com/find/wtmanagers)

8960 test set specifications, product literature, application notes, and configuration guide are available at

[www.agilent.com/find/8960](http://www.agilent.com/find/8960)



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1. Not required to run software, required for Visual Basic test development capability

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