

Agilent N5882A W-CDMA Enhanced Wireless Test Manager

Product Overview

Quickly and easily perform R&D verification and preconformance testing of wireless devices using powerful, easy-to-use test automation software



Tests Supported

W-CDMA/HSPA call processing

- Base station (BS) originated call
- BS release
- Mobile registration
- Mobile originate (AMR mode)
- · Change channel
- Security settings
- Short Message Service (SMS)

W-CDMA/HSPA transmitter tests

- Adjacent channel leakage power ratio (ACLR)
- Inner loop power control
- Maximum output power
- Minimum output power
- Occupied bandwidth (OBW)
- Open loop power control
- Phase discontinuity
- Spectrum emission mask (SEM)
- Transmit on/off power
- Waveform quality
- Error vector magnitude (EVM)
- · Frequency error
- Magnitude error
- Origin offset
- Phase error
- Change of TFC
- PRACH preamble quality
- Code domain test
- Transport channel reconfiguration handoff
- HSDPCCH test

W-CDMA/HSPA receiver tests

- BLER
- Maximum input level (BER)
- Reference sensitivity level (BER)
- Sensitivity search
- Demodulation of DCH in static conditions

General tests

- Pseudo random handoff loops
- Data analyzer
- Wireless Protocol Advisor (WPA) data logging
- Current drain
- . Loop on RMC rates ability
- Agilent 14565B Device Characterization Software control
- GPIB command Send/Receive
- DUT command Send/Receive



Hardware Supported

Test instruments

- E5515C mainframe (or equivalent E5515B/T) with Option 003 (revision C.04.06)
- E6703E(revision E.01.13) or E6785E(revision E.01.14) Lab Application
- 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
- Comtrol 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, or Windows 2000 Professional Service Pack
- 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

Order Information

- N5882A W-CDMA Enhanced Wireless Test Manager
- Option 100 development and run-time license with software
- Option 200 upgrade for N5882A

For More Information

N5882A Enhanced Wireless Test Manager specifications and product literature is available at:

www.agilent.com/find/N5882A

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

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