

## Agilent E6387A

# Nortel Cellular/PCS CDMA Base Station Test Software for the 8935 Series E6380A CDMA Base Station Test Set

### Overview

#### Agilent Technologies test set and software reduce test time for Nortel Cellular and PCS CDMA base stations

Agilent Technologies has introduced software enhancements to its E6387A base station test software to help installation technicians reduce the time and errors in testing cellular and personal communication service (PCS) base stations. This new software is designed specifically to automate testing for 800 and 1900 MHz Indoor and Outdoor MetroCell, Outdoor 1900 MHz PCS, FCP800, Macro, and C800 CDMA base stations manufactured by Nortel.

The software package is available as E6387A Nortel Cellular/PCS CDMA base station test software.

The E6387A software package was designed to automate the installation procedure used by Nortel base station installers. Automation of this procedure reduces the occurrence of measurement errors and increases a technician's efficiency. In addition, a simple menu driven user interface requires less technical expertise to achieve consistent, repeatable measurements.

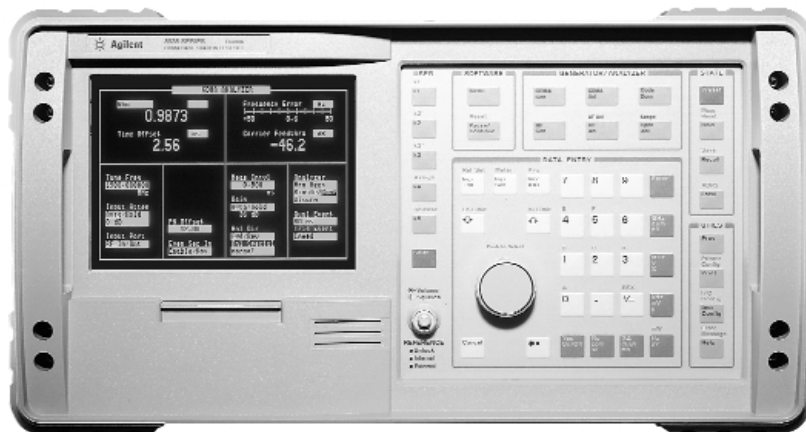
The E6387A software package also includes a laptop utility that allows you to link your base station test set running base station test software to a laptop computer. In addition to capturing data by printing or saving data to a memory card, this program aids in recording test results and capturing test set screen images to a PC.



Data capture allows providers to identify key trends over a period of time and improves record keeping because the same pertinent data is always captured.

#### Other E6387A features provide these efficiency benefits:<sup>1</sup>

- Preconfigures the test set for ease of use with the Nortel equipment when the software package is initiated
- Automates cable loss, return loss, and RF components loss measurements
- Provides CDMA utilities such as a PN offset search algorithm, even second clock signal check, and markov check
- Performs spectral interference evaluation
- Performs code domain measurements,  $\rho$  (rho) measurements
- Performs receiver noise figure measurements (C800, FCP800)
- Performs RF power sensor verification
- Performs RX RF path gain verification
- Performs TX spectral regrowth and adjacent channel power measurements



1. To realize all the features and benefits listed, the E6380A requires firmware version A.02.00 or later.



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## E6380A standard features

The E6380A base station test set combines over 20 high performance instruments with an internal controller to automate installation and maintenance testing on analog and digital base stations.

## CDMA tests

- Frequency error
- Average power
- Modulation quality (rho)
- Code domain power
- Code domain timing
- Code domain phase
- Adjacent channel power<sup>2</sup>
- Carrier feedthrough
- Output power monitoring/adjustment
- Code domain analyzer
- PN offset search<sup>2</sup>

2. Requires firmware version A.02.00 or later.

## Additional measurement capability

- Spectrum analyzer
- Synthesized AM/FM signal generator
- AM/FM modulation analyzer
- Duplex offset generator
- RF power meter
- RF frequency counter/error meter
- Synthesized spectrum analyzer
- Tracking generator
- Audio frequency counter
- Audio frequency power meter
- AC voltmeter
- DC voltmeter
- DC current meter
- Distortion meter
- SINAD meter
- Signal-to-noise meter
- Two synthesized variable audio sources
- Function generator
- Cellular signaling encoder/decoder
- Digital oscilloscope
- Built-in IBASIC controller
- IEEE 488.2, parallel printer, and RS-232 interfaces

## Agilent Technologies' Test and Measurement Support, Services, and Assistance

Agilent Technologies aims to maximize the value you receive, while minimizing your risk and problems. We strive to ensure that you get the test and measurement capabilities you paid for and obtain the support you need. Our extensive support resources and services can help you choose the right Agilent products for your applications and apply them successfully. Every instrument and system we sell has a global warranty. Support is available for at least five years beyond the production life of the product. Two concepts underlie Agilent's overall support policy: "Our Promise" and "Your Advantage."

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**Get assistance with all your test and measurement needs at:**  
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## Sample order

**Nortel PCS CDMA (1900MHz) base station test including RF tools hardware, a five-year repair contract, and hands-on training.**

<b>E6380A</b>	8935 series CDMA base station test set	qty 1
	Option W50 (return repair service)	qty 1
<b>E6387A</b>	Nortel CDMA base station test software	qty 1
<b>E8302A</b>	Nortel base station connection kit	qty 1
	Option 001 (adds RF tools hardware to connection kit)	qty 1
<b>H7210</b>	Option 212 CDMA PCS Nortel hands-on training	qty 1



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