

### **Agilent E6389A**

# E6389A Nortel Cellular AMPS/TDMA and PCS TDMA Base Station Test Software for the E6381A AMPS/TDMA\* Base Station Test Set

Overview

## Agilent Technologies' test set and software reduce test time for Nortel Cellular AMPS/TDMA and PCS TDMA base stations



The E6389A 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 E6389A 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 service providers to identify key trends over a period of time and improves record keeping because the same, pertinent data is always captured.

\* AMPS base station testing may also be performed on the E6380A AMPS/CDMA base station test set.



#### **E6389A Test Suite**

Models tested: TRU and P-series

#### RS-232 interface to base station

Tests performed:

#### **Transmitter Tests**

#### **P-Series and TRU Analog Tests**

- · Frequency error
- · Maximum power and power level
- · SAT frequency and deviation
- · Wideband data deviation
- · Residual FM

#### **P-Series Analog Tests**

 Voice modulation/limiting/ adjustment

#### **TRU Tests**

- · TDMA power
- · TDMA adjacent channel power
- · Residual AM
- Modulation accuracy
  - Error vector magnitude (EVM)
  - · Magnitude and phase error
  - · Origin offset
  - Frequency error
  - · Peak error vector magnitude

#### **Receiver Tests**

#### **P-Series and TRU Tests**

- Receiver A/B SINAD sensitivity
- Receiver A/B SAT detection
- Receiver A/B ST detection
- Receiver A/B audio level
- · Receiver A/B RSSI linearity
- Receiver A/B RSSI offset

#### **TRU Tests**

• Bit error rate (BER)

#### **General Tests**

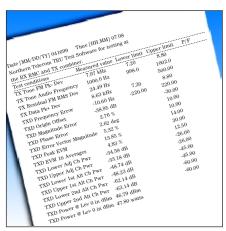
- Laptop emulator
- · Manual switch control
- PA LED alarm and TRU display

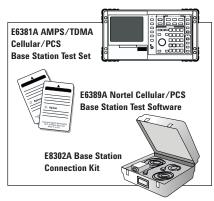
#### **RF Measurement Tools**

- · Swept frequency insertion loss
- Swept frequency return loss
- Cable fault test-return loss versus distance (P-series)
- · PC data transfer

#### **Nortel Base Station Types Tested**

- · P-Series AMPS radio
- TRU 1/MPA
- TRU 2/MPA, SCLPA, DPA, NONE, MCPA, FMPA+
- TRU 3/SCLPA, DPA, NONE, MCPA
- TRU 1900/SCLPA, NONE
- · Macro cell
- Urban cell





#### Sample Order:

For Cellular or PCS TDMA base station testing.

E6381A	AMPS/TDMA Cellular/PCS
	base station test setqty 1
E6389A	Nortel Cellular/PCS
	base station test software
E8302A	Base station connection kit atv 1

#### **Agilent Support, Services, and Assistance**

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"Our Promise" means your Agilent test and measurement equipment will meet its advertised performance and functionality. We can verify that it works properly, help with product operation, and provide basic measurement assistance for specified capabilities, at no extra cost. Many self-help tools are available.

"Your Advantage" means that Agilent offers additional expert test and measurement services at extra cost. Solve problems efficiently by contracting with us for calibrations, extra-cost upgrades, out-of-warranty repairs, on-site training, professional emerging services, and more.

## By internet, get assistance with all your test and measurement needs at: www.aqilent.com/find/assist

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