



Agilent 8935 Series Samsung CDMA Base Station Test Software

Product Overview

The Agilent Technologies test set and new software reduces test times for installation and maintenance of Samsung CDMA base stations

Agilent Technologies introduces the latest addition to the 8935 Series base station test software for testing Samsung CDMA Cellular and PCS base transceiver stations (BTS). This software improves an installation and maintenance technician's efficiency, by reducing the time it takes to test CDMA BTSs. This new software combined with the 8935 Series, E6380A CDMA Cellular/PCS base station test set is designed specifically to automate testing for CDMA Cellular and PCS BTSs manufactured by



The 8935 series E6308 CDMA Cellular/PCS Base Station Test Set is optimized for testing today's outdoor PCS base stations.

Samsung Telecommunications. The software is available as E6386A Agilent 8935 Samsung CDMA Cellular/PCS base station test software. The total solution complete with cables is available as E6550A Agilent 8935 CDMA Cellular/PCS base station test solution.

Thorough testing in less time

The fast measurement speed of the E6380A test set coupled with the automated base station test software, results in less out-of-service time for the BTS and faster troubleshooting.

All base stations are uniformly tested with the same procedure, which provides virtually no errors due to test variability. Additionally, the software reduces human errors which also improves efficiency. Predefined tests allow technicians at all skill levels, to obtain consistent and accurate results. Standardizing system maintenance increases systems integrity.

Measurement results can be captured by a laptop PC, memory card, or external printer for future reference. By analyzing measured data, trends can be identified and proactive steps taken to avoid costly BTS downtime.

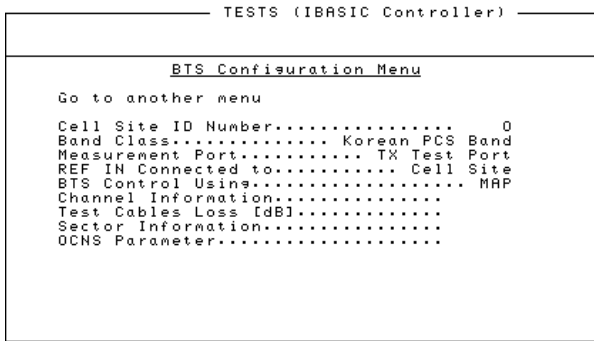


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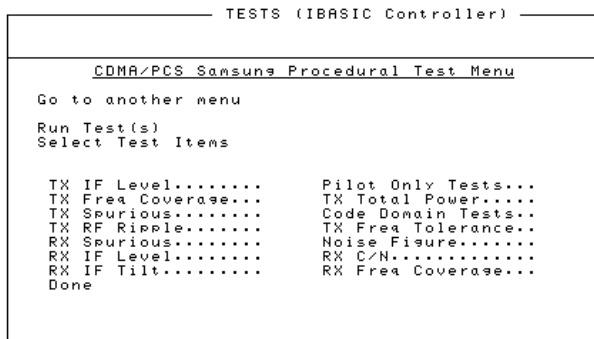
Key features of the solution include:

- Control of the BTS
- Predefined tests derived from Samsung’s installation procedure
- Antenna sweep, cable fault, and other test utilities
- Test results storage
- Intuitive user interface
- Displayed BTS connection diagrams.



Easy setup

The software guides you through the configuration of both the BTS and test set. Once configured, settings can be saved to a memory card. This allows the technician to customize procedures for each BTS location and repeat the exact same procedure at a later date for trend analysis.

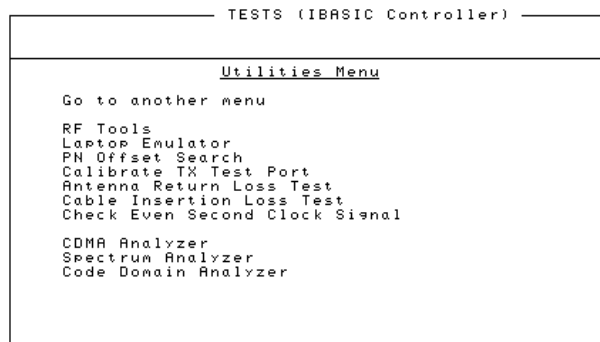


Complete testing

The Samsung BTS test solution uses the E6380A test set’s built-in IBASIC controller to automate base station test procedures. Derived from Samsung’s installation procedure, the software ensures complete test and adjustment of the BTS as recommended by Samsung. A flexible user interface allows the technician to execute only the particular test(s) required.

Automated BTS control

For complete automated control of the BTS, an optional 8935 Samsung BTS Control Adapter may be used in conjunction with the software to automatically setup and control the BTS. Significant time savings are realized since technician intervention is not required for BTS test setup.



BTS troubleshooting simplified

Specific test routines help the technicians quickly troubleshoot BTS problems. The optional 8935 RF Tools Hardware Accessory Kit (E6550A Option 001) provides the necessary hardware to perform antenna return loss and cable fault measurements. Having this capability built into one product reduces the need to carry additional equipment.

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Site ID..... 2
Sector..... Alpha
Channel..... 44

Date [MM/DD/YY] 042298   Time [HH.MM] 15.30
=====
Test conditions      Measured value      Lower limit  Upper limit  P/F
=====
TX IF Level at SIC_A  -8.15 dBm          -9.00        -7.00
TX IF Level at SIC_B  -7.32 dBm          -9.00        -7.00
Rho                   .9000              .9120        1.0000    FAIL
TX RF Ripple          3.60 dB            4.00
RX IF C/N             28.23 dB           20.00
RX IF Tilt            1.08 dB            2.00

Points passed= 5 Points failed= 1
===== End of Test Results =====

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Measurement results

Test results can be saved to a laptop PC, memory card, or external printer. The easy-to-read format allows the technician to quickly determine how many tests failed and how many measurements are close to the test limit. Capturing the measurement data electronically provides improved efficiency and flexibility for trend analysis.

Samsung models tested:

- CDMA Cellular Micro Indoor
- CDMA Cellular Mini Indoor/Outdoor
- CDMA PCS Mini Indoor/Outdoor

Agilent E6380A base station test set standard features:

- A rugged, full-featured one-box test set designed for the technician’s environment
- Full signal generation and analysis capability
- Support for international PCS frequency bands
- Enhanced user interface and larger, bright, electroluminescent display for easy operation
- Technical support and services from Agilent’s industry-recognized wireless experts
- Education and training for base station test technicians and engineers.

E6550A Samsung CDMA BTS test solutions



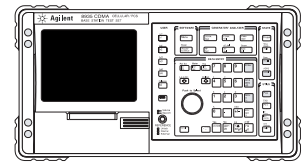
CDMA cellular/PCS base station test set software*

Control adaptor, cables, and optional RF tools hardware accessory kit



E6380

8935 CDMA cellular/PCS base station test set



Ordering information:

- E6380A** Agilent 8935 CDMA Cellular/PCS . . .Qty 1
Base Station Test Set
- E6550A** Agilent 8935 Samsung CDMA Base Station Test SolutionQty 1
(Includes E6386A Samsung Base Station Test Software*, Samsung BTS Control Adaptor and Cables)
- E6550A** Option 001 Agilent 8935 RF Tools Hardware Accessory KitQty 1
(Includes hardware for antenna return loss and cable fault measurements)

* The E6386A Agilent 8935 Samsung CDMA Cellular/PCS Base Station Test Software may be ordered separately however it is recommended to order the E6550A solution to receive the software, cables and BTS control adapter.

For more product information visit our web site at:
www.agilent.com/find/8965support

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