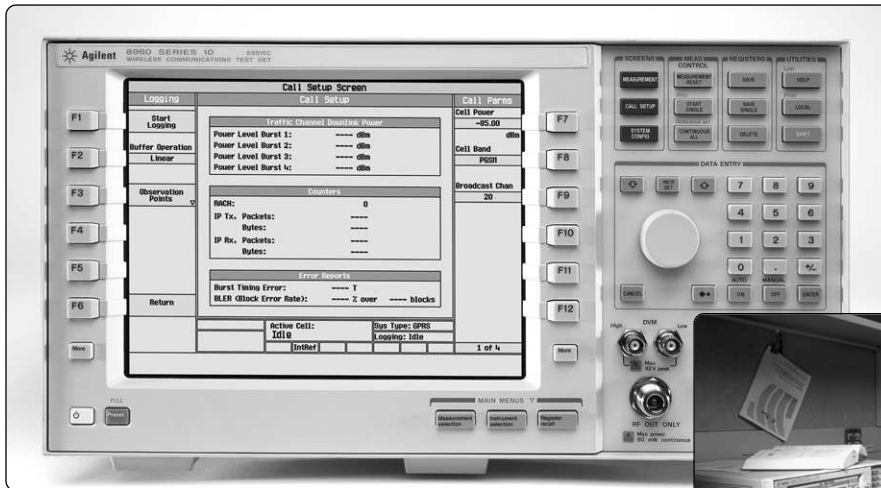


Agilent E6701A GPRS Lab Application for the Agilent 8960 Series 10 Wireless Communications Test Set

Product Overview



Accelerate the move to market for your GPRS appliances by speeding up your development schedule

For R&D engineers:

- developing GPRS mobile devices
- integrating the baseband and RF subsystems into prototype phones or mobile appliances
- verifying that the software/firmware and RF subsystems all work together

The Agilent E6701A lab application is the test solution you've been waiting for.



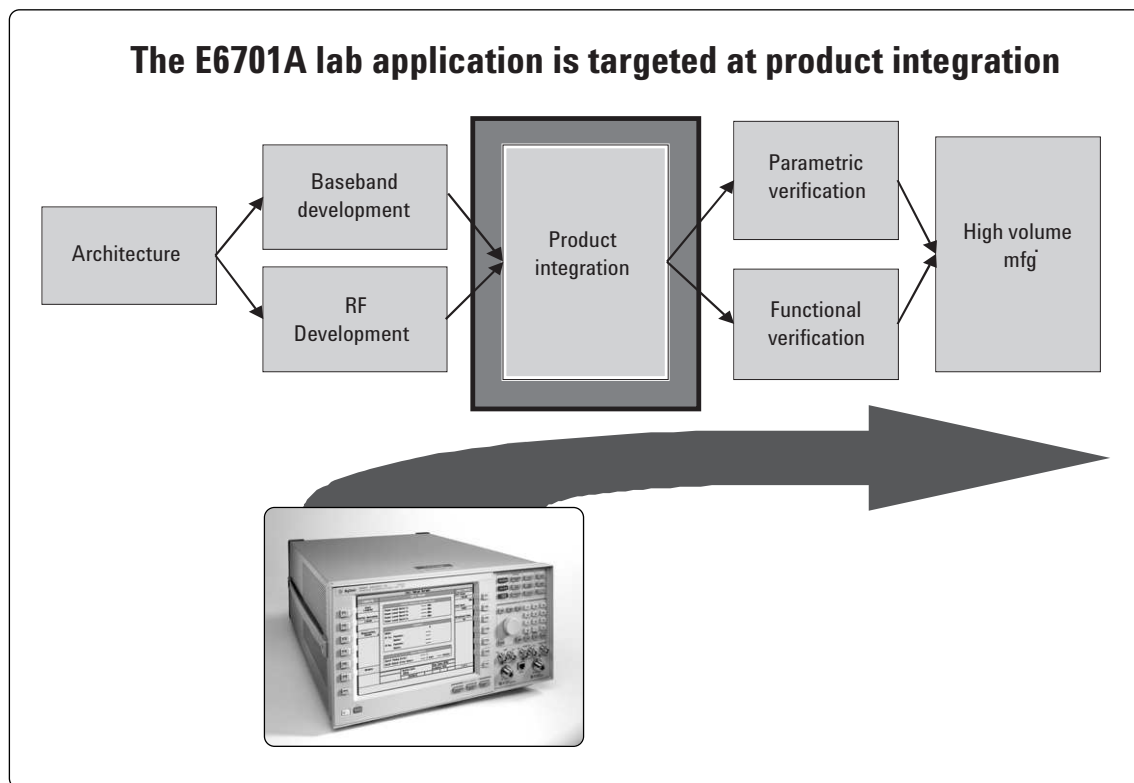
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Have a base station on every bench

The complex task of integrating subsystems and software, and verifying product functionality and performance is now simplified with a single instrument that provides the ability to simulate a connection to a GPRS network, log protocol messages and data channels, and accurately measure parametric performance of appliances.

With the E6701A GPRS lab application in the 8960 Series 10 wireless test set you have a base station on a bench. Integration engineers will be more productive and will be able to find difficult integration problems without having to wait for allocated time on lab verifications systems or a live cellular system. Without writing scripts, test engineers can

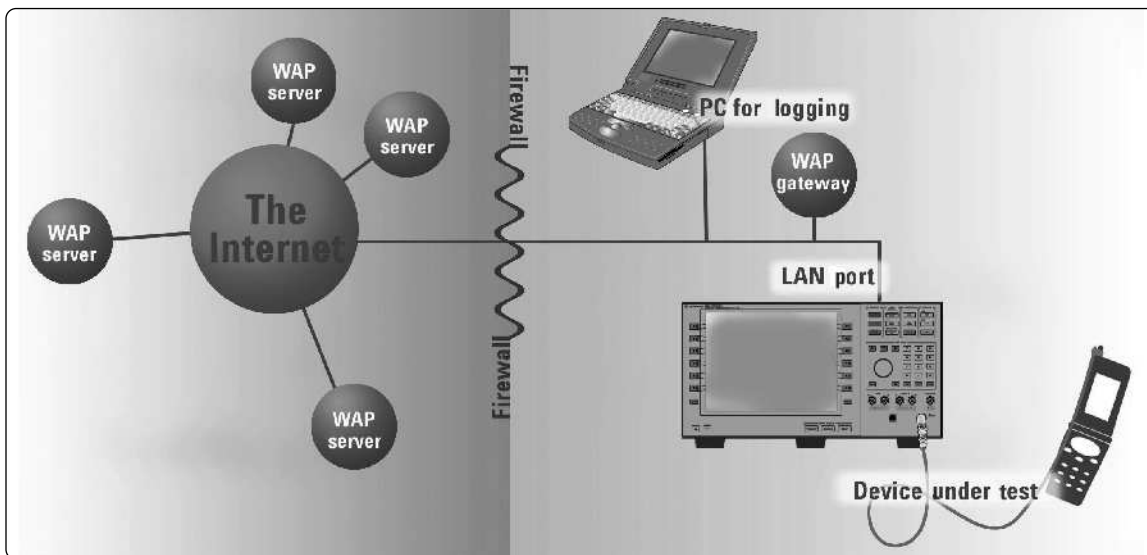
connect to the Internet and transfer data to or from a mobile. *But that's not all!* At the same time real data is being transferred between the base station and the mobile device, engineers can log protocol messages and measure the RF parametric characteristics of the RF subsystems. With this type of data analysis de-bug times will be shortened and overall development time will be reduced.



Reduce design cycle time

This product solution reduces the design cycle time of GPRS mobile devices by reducing design iterations. The E6701A installed in an E5515C makes integration engineers more productive when troubleshooting and verifying the ability of a new device to transfer real data (for example, WAP, e-mail, files) properly to the network straight from the bench. When problems are identified, integration engineers can easily troubleshoot the device by logging signaling messages, and they can also measure the RF characteristics of the device. This functionality allows engineers to quickly identify root cause issues of subsystem interaction problems thus reducing design iterations.

- Exercise a GPRS handset by sending and receiving wireless data while making mobile device BLER and transmitter measurements. This allows system integration engineers to measure the device's receiver and transmitter performance while testing real-time data transfer performance.
- TCP/IP and UDP/IP data transfers are supported in addition to pinging both the mobile device and Internet devices.
- A Web server within the test set provides an easy to use Web browser interface (for example, Microsoft® Internet Explorer®) for protocol logging.
- View the messages at different levels within the protocol stack from the IP layer through L1 interface.
- Modify some system parameters sent to the device. This allows engineers to simulate and vary the conditions under which the device operates, such as:
 - Timing advance value that allows the device to compensate for the distance between the device and base station.
 - Uplink state flag allows verifying that the mobile will respond to different values.



Ease the transition from R&D to manufacturing test data

In addition to design verification, production test engineers can use the same 8960 measurement engines for device calibration and final test. This provides consistency and correlation between R&D and manufacturing test data.

Give your R&D engineers a one-box solution to quickly troubleshoot and validate GPRS wireless appliance designs

- Log messages through various levels of the protocol stack for troubleshooting. For example, a device is not connecting to the network properly, or the power control to the device is not functioning. Integration engineers can log protocol messages from the time the device is powered up through the exchange of power control messages. This type of functionality provides engineers the capability to debug problems between RF, baseband chipset, protocol stack, micro-browser, e-mail, and so forth.
- The ability to change cell parameters such as MCC, MNC, LAC, NCC, BCC, RAC.
- All of the parametric measurements, RF specifications, and triggering modes in the latest release of the manufacturing test application (E1964A) are included.
- It is easy to learn and use. Engineers will be solving problems quickly.

Ordering information for the GPRS lab application and wireless test set

E5515C

8960 Series 10 wireless communications test set

Option 002

Second RF source

E6701A

GPRS lab application

E1960A

GSM mobile test application

Order the E5515C (8960 Series 10) wireless communications test set and the E6701A GPRS lab application. A lab application or test application must be ordered with each E5515C. Lab applications for additional technologies are planned. Test applications are currently available for a number of additional technologies (GSM, IS-136, IS-95A, cdma2000, W-CDMA). It is also recommended that you order the E1960A GSM mobile test application to fully meet the parametric test needs of GPRS devices that contain GSM functionality. Test applications require E5515C hardware options for some cellular formats.

For more information visit our website at

www.agilent.com/find/8960support, or call your Agilent sales representative for detailed configuration and ordering information.

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China:

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(fax) 1-0800-650-0121

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(tel) (31 20) 547 2323

(fax) (31 20) 547 2390

Japan:

(tel) (81) 426 56 7832

(fax) (81) 426 56 7840

Korea:

(tel) (82-2) 2004-5004

(fax) (82-2) 2004-5115

Latin America:

(tel) (305) 269 7500

(fax) (305) 269 7599

Taiwan:

(tel) 080-004-7866

(fax) (886-2) 2545-6723

Other Asia Pacific Countries:

(tel) (65) 375-8100

(fax) (65) 836-0252

Email: tm_asia@agilent.com

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