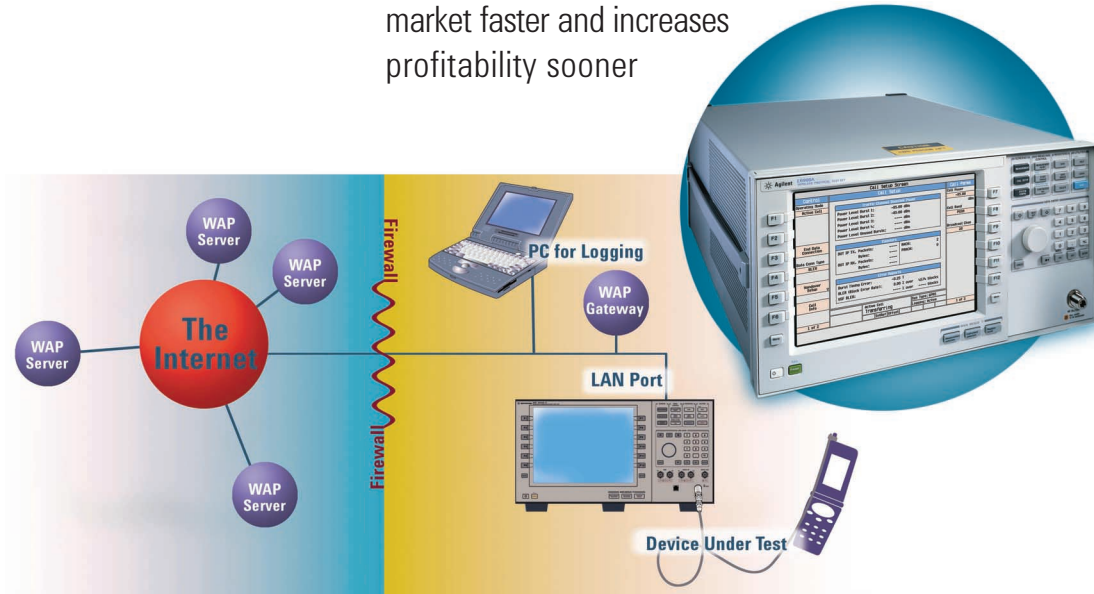


## Let Agilent accelerate your GPRS device design cycle...

The E6910A GPRS protocol application gets your wireless devices to market faster and increases profitability sooner



- Accelerate your development schedule at your bench within minutes of power-up – troubleshoot and verify your new GPRS signaling features
- Produce higher quality designs with the ability to stress and measure the performance of your wireless device's Internet Protocol (IP) data channel using the real-time air-to-LAN functionality
- Quickly minimize the need to create custom debug code or to build elaborate triggering hardware
- Breakthrough price and performance

Application	All lab integration, testing, and verification	Signaling and data channel protocol testing and verification	Manufacturing test
Software + Platform	<b>E6701B + E5515C</b>	<b>E6910A + E6900A</b>	<b>E1964A + E5515C</b>
Network emulation	●	●	●
Wireless protocol advisor	●	●	
RF-to-LAN IP data channel	●	●	
RF measurements	●		●
Calibrated RF performance	●		●

- Broad implementation
- Smaller and optimized implementation



**Agilent Technologies**

## Agilent E6910A GPRS protocol device for the E6900A wireless protocol test set

The E6910A gives software engineers a network emulator on their bench, to quickly troubleshoot and validate GPRS wireless device designs. The flexible, comprehensive protocol analysis and data channel of the test set provides the tools needed to accurately evaluate and verify a device's signaling functionality, IP performance, and user experience. These enhanced capabilities make the E6900A test set one of the most advanced instruments available today.

### The E6910A's powerful and full-featured protocol analysis capabilities include:

- real-time logging of inter-layer and peer-to-peer messages including developer's proprietary messages (raw data only)
- IP datagram capture and display
- selectable and powerful triggering, filtering, and search capabilities of logs
- the traffic overview summarizing logged message information
- decode view for viewing individual bit fields with appropriate labeling for each message

### IP data channels

As part of the troubleshooting strategy, the IP data channel feature allows you to originate and terminate real-time application specific GPRS data traffic. A true IP data channel is supported to provide connectivity between the GPRS air interface and the LAN port on this instrument. The throughput is controlled by the user's selection of slot and coding configuration. This capability enables testing and performance characterization for both the device's data handling and embedded applications like:

- FTP file transfers with local and remote servers
- interoperability with real gateways and sites for WAP, i-Mode, and other standards while surfing local intranet and external Internet sites
- test SMS functionality and performance
- measure data throughput on the wireless device for both simple cases and under loaded or stressed datacomm conditions

### Other new and important GPRS protocol application features include:

- PBCCH, including support for 8 and 11 bit PRACH
- GPRS point-to-point and cell broadcast Short Message Service (SMS)
- fixed or dynamic allocation options
- MS reports of C value, I level, Signal Variance, and Rx Qual
- USF BLER Report

### Protocol Event Triggering and Extended Frame Triggers

The new Protocol Event Trigger Output (patent pending) allows protocol-related events on both the uplink and downlink in multiple layers of the protocol stack to provide an externally available trigger for other instruments.

The E6910A GPRS protocol application includes all the network emulation and protocol analysis capability of the E6701B GPRS lab application and gives the proven benefits of the Agilent wireless test set family. Operating on the E6900A platform, gain the benefits of reliability, ease of programming, support for existing and emerging wireless technologies, and worldwide service and support.



### Agilent Email Updates

[www.agilent.com/find/emailupdates](http://www.agilent.com/find/emailupdates)

Get the latest information on the products and applications you select.

**By internet, phone, or fax, get assistance with all your test and measurement needs.**

Online assistance:

[www.agilent.com/find/assist](http://www.agilent.com/find/assist)

#### Phone or Fax

**United States:** (tel) 1 800 452 4844

**Canada:** (tel) 1 877 894 4414  
(fax) (905) 282 6495

**China:** (tel) 800 810 0189  
(fax) 1 0800 650 0121

**Europe:** (tel) (31 20) 547 2323  
(fax) (31 20) 547 2390

**Latin America:** (tel) (305) 269 7500  
(fax) (305) 269 7599

Additional information is available at:

[www.agilent.com/find/wirelessprotocol](http://www.agilent.com/find/wirelessprotocol)

Product specifications and descriptions in this document subject to change without notice.

© Agilent Technologies, Inc. 2002  
Printed in USA, May 8, 2002  
5988-6177EN



**Agilent Technologies**