The Most Comprehensive Test Solution for GSM/GPRS/EGPRS/E-EDGE Wireless Devices

- Offers you the most comprehensive GSM/GPRS/EGPRS/E-EDGE test solution in a single box

- Reach your high-volume production goals with fast, accurate, and stable measurements

- Improve the return on your instrument investment with easy upgrades

Agilent Technologies

The most comprehensive one-box test solution for GSM, GPRS, EGPRS, and E-EDGE

With signaling mode, test mode, and other special application modes such as fast device tune (FDT), phase and amplitude versus time (PAvT), and the newly-added IQ capture, the E5515C wireless communication test set combined with the E1968A mobile test application offer you the most comprehensive one-box test solution for GSM, GPRS, EGPRS and E-EDGE wireless device production. This flexible solution can meet all your production testing needs such as calibration, functional/final test, antenna test, QA, and validation. FM radio and global positioning system (GPS) source functionality can reduce the production process and improve the yields for built-in FM radios and GPS phones. In addition, the E1968A with (E)GPRS class 45 support, enhanced audio measurement, and ORFS measurement in time domain gives design and test engineers more flexibility in development and production QA.

As the most comprehensive test solution, the E1968A gives you the ability to process bit error rate (BER) data and perform transmitter measurements simultaneously. Test mode BER and mobile station (MS) calculated BER will help you to remove mobile receiver test bottlenecks and reduce test times. Accuracy and repeatability ensure correct and stable measurement results to improve the quality and reliability of your mobile phones, and increase production line yields.

Figure 1: Test mode BER and MS calculated BER without a signaling connection or TCH loopback will reduce Rx test times

E1968A key features

- Accurate, stable, and fast Tx/Rx concurrent measurements
- Supports all GSM frequency bands without additional cost
- Fast device tune applies to most GSM/(E)GPRS chipsets and can reduce calibration times by an order of magnitude
- Supports E-EDGE DLDC, FANR, RTTI, and EGPRS2-A downlink and uplink measurements
- E1968A-406 provides VAMOS solution to help you accelerate production of first-to-market VAMOS phones
- E1968A-410 PAvT, helps you exceed your calibration time goal; E1968A-411 IQ capture is anew calibration tool for your phone model based on the state-of-the-art GSM linear RF amplifier
- With feature option E1968A-419 MS calculated BER reduces your Rx test times through multi-phone test
- Enhanced audio measurement with real-time audio codec functionality supports AMR and WB-AMR measurements
- E5520A FM adaptor, lets you perform built-in FM radio receiver calibration
- Newly-added single channel GPS signal generator simplifies built-in GPS phone receiver testing and increases your production yields
- Class 45 enables six uplink bursts measurement simultaneously

Add other technology formats for even more testing flexibility with easy upgrades

Adding E1963A W-CDMA/HSPA, E1962B cdma2000®, or E1966A 1xEV-DO test applications is an easy way to expand your test coverage to include all 3G formats in a single box. Fast switching between all technology formats simplifies your production line design and allows you to quickly ramp-up production of all you mobile phone models.

Figure 2: Fast switch between all technology formats quickly and easily

Get the most out of your investment

When you purchase the E5515C you get the world's leading multi-format wireless one-box test platform. In addition to GSM/GPRS/EGPRS, the E5515C supports W-CDMA, HSDPA, HSUPA, IS-95, cdma2000, 1xEV-DO, IS-136, and AMPS formats. Owning all formats requires just an easy upgrade.[1] Because the E5515C platform is the industry standard for manufacturing, you have the added confidence of proven performance, high integrity measurements, and expansion capabilities that ensure the viability of your test solution well into the future.

Ordering information

E1968A-101	GSM test application
E1968A-102	GPRS test application
E1968A-103	EGPRS test application
E1968A-104	Evolved EDGE test application
E1968A-201	GSM/GPRS test application
E1968A-202	GSM/GPRS/EGPRS test application
E1968A-406	GSM/GPRS VAMOS
E1968A-408	GSM/GPRS enhanced audio
E1968A-409	GSM/GPRS advanced SMS
E1968A-410	GSM/(E)GPRS phase and amplitude versus time
E1968A-419	Mobile calculated BER
E1968A-430	Class 34
E1968A-431	Class 45
E1999A-202	Fast device tune enhanced
E1999A-206	Single channel GPS source
E1999A-301	PESQ measurement

Related literature

E1968A GSM/(E)GPRS Test Application, technical overview, 5990-5708EN

8960 Series 10 Wireless Communications Test Set, configuration guide, 5968-7873EN

For more information

Learn more about the E1968A test application and options for GSM/GPRS/EGPRS at: www.agilent.com/find/E1968A

Learn more about new E5515C releases at: www.agilent.com/find/8960news

For details on all of the E5515C manufacturing test solutions, visit: www.agilent.com/find/8960mfg

1. Some E5515Cs may require a hardware upgrade to run some applications and features. Contact your Agilent Sales Representative for more information.

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