

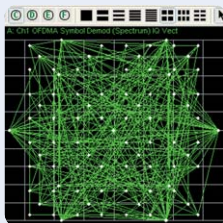
Greater Insight Into High-Speed Cellular



Agilent Technologies



Agilent Cellular – Greater insight. Greater confidence.



www.agilent.com/find/cellular

Agilent Technologies, the world's premier measurement company, offers a full range of design and solutions that span the range of cellular technologies—from legacy 2G systems through 3G systems to HSPA and 3GPP Long Term Evolution (LTE) and from cdma2000 to Revision B of 1xEV-DO. Agilent products cover the lifecycle from early design and development, through volume manufacturing, to conformance test and installation and maintenance.

From design and development...

Agilent is an active participant in the development of test processes and measurement methods in both 3GPP and 3GPP2 standards organizations. We are determined never to let test equipment needs stand in your way of developing innovative products for emerging communications standards.

To manufacturing...

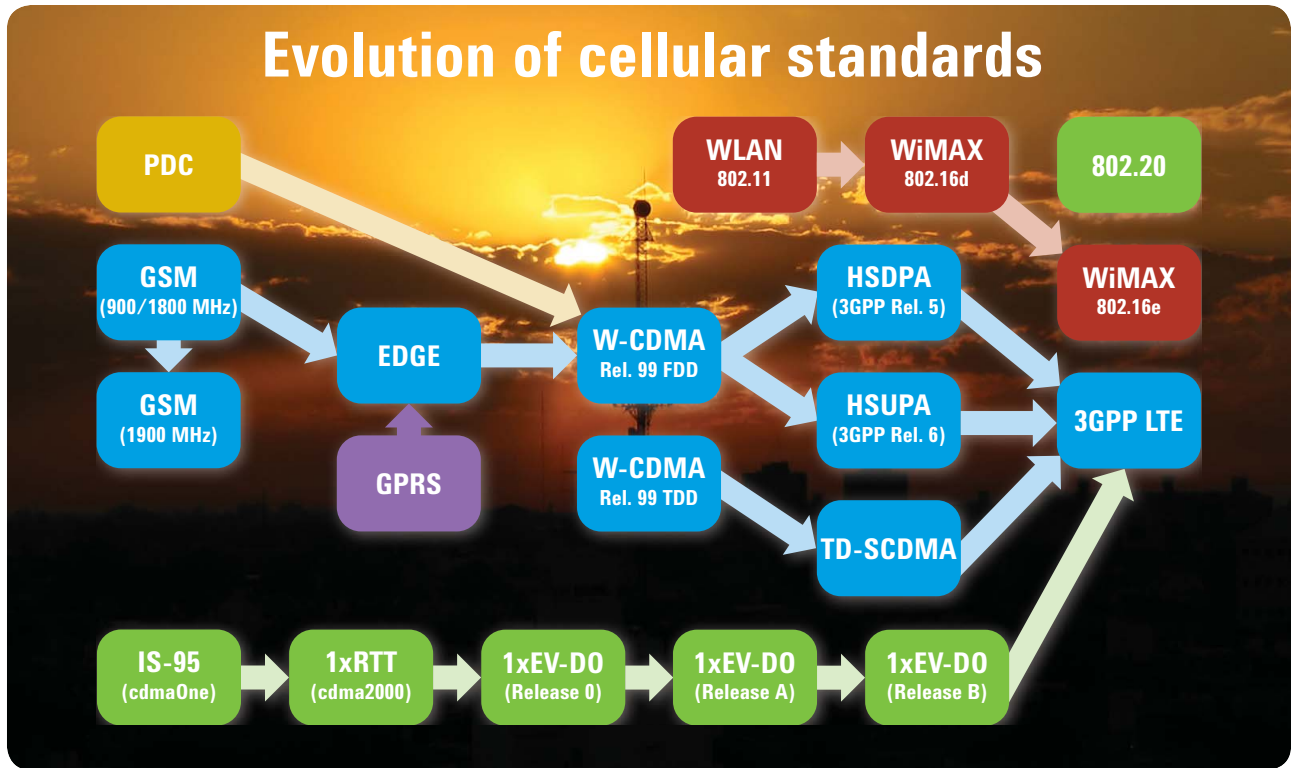
As technologies move into manufacturing, Agilent extends its expertise to offer stand alone products and system solutions to help get your designs to market faster and more efficiently. And, we will continue refining our offering of design and test tools as technologies mature and cost-of-test issues drive manufacturing efficiency.

To compliance test...

Today, compliance test needs span the design cycle of cellular technology: early capability to troubleshoot designs, formal conformance test and the wider need for user-experience testing, as well as the need for user equipment to hand off amongst cellular technologies means much more time spent testing before new designs are released to the market. Agilent offers both RF and Signaling conformance test solutions that cover individual 2G and 3G technologies as well as new products for LTE and inter-system testing.

Worldwide engineering expertise

Our worldwide expertise and robust knowledge library of application notes, CDs and more are designed to help you interpret, clarify and test to continually evolving cellular technologies, giving you greater insight into your cellular designs and test. Agilent Cellular – Greater insight. Greater confidence.



Leading the way in new technologies

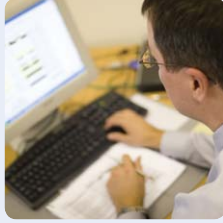
The latest standards do exist, but are subject to continuing revision. As active participants in the development of test processes and measurement methods in both 3GPP and 3GPP2 standards organizations, Agilent is determined to provide the test solutions you need—when you need them.

Supporting higher data rates

With the move to higher transfer speeds for data services, the industry needs to push chipset designs and network services to the limits. Chipset designs need to have as long a lifespan as possible to recover investment costs over a longer period. This means that headline rates supported by a chipset will be much greater than the data rate that will be used by the device in the network. Agilent understands and provides test instrumentation capable of testing to the higher data rates specified in HSPA+ and LTE.

Testing the user experience

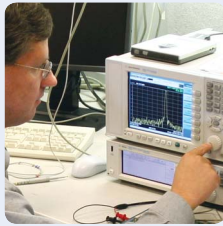
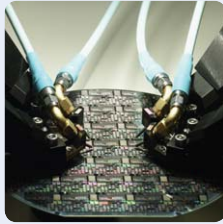
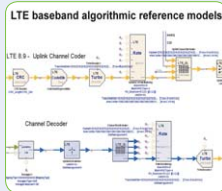
The challenge for network operators is to move end-users forward to new handsets and entice them to use the new services made possible by the operator’s investment in next-generation network equipment. At the same time, operators need to ensure their customers maintain access to information from previous-generation equipment and will not lose connectivity. Agilent is there to support the quality of the user experience, from making conformance measurements to testing all the potential customer scenarios, including handovers to legacy systems.



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Design and Development



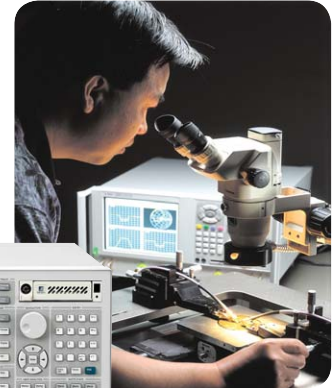
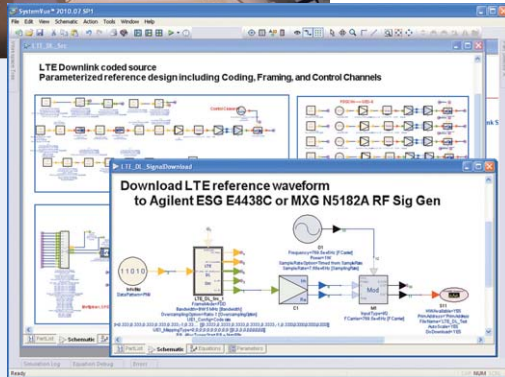
If you are working on 3GPP technologies or 1xEV, and your future will focus on LTE, Agilent can help you get your designs from concept to customer—faster. Our engineers are dedicated to understanding the intricacies of evolving cellular standards to provide you with the solutions you need, when you need them. Whether you are designing components, base stations, or user equipment, only Agilent delivers a complete, integrated R&D design and test environment with simulation, characterization, and evaluation tools. Agilent's broad product portfolio makes it the only test equipment supplier able to provide a single-vendor solution for the cross-domain test challenge of digital wireless handset designs such as DigRF.

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System simulation

Use Agilent's system simulation tools to get your design right the first time, and "Connected Solutions"—the combination of simulation and test instrumentation—to move quickly to the real world.



Component development

Connect the Agilent PNA-X or ENA network analyzers and match real-world test results with simulation data for the immediate feedback you need to refine your design.



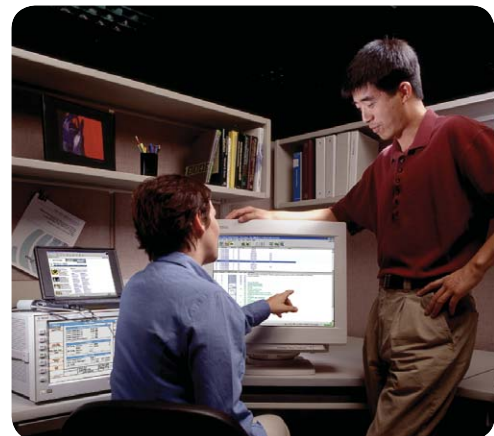
Module design

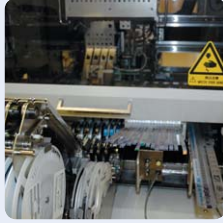
Combine the Agilent MXG signal generator, pattern generation, and logic analysis with the Agilent MXA and the Agilent 89600 Vector Signal Analysis software, for complete characterization of digital wireless designs.



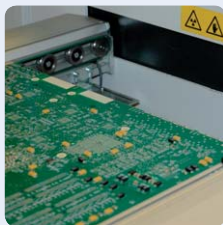
Prototype evaluation

From standalone one-box test sets for early manual testing, to automated conformance test systems, Agilent has the right tools to help you fully evaluate your prototype and pre-production devices throughout your development cycle.





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Design and Development



Manufacturing

In the manufacturing environment you feel intense time-to-market pressures, especially for new technologies where being first is key. From base station equipment, where being first gets the contracts, to end-user equipment with a lifetime of only a few months to make a return on investment, you need to get your product to market fast, while protecting your bottom line. Choose Agilent for a complete portfolio of test equipment solutions that are fast, accurate, flexible, and cost-effective.



Component test

Use Agilent network analyzers with multi-port test sets and calibration tools to minimize reconnection and obtain optimum measurement integrity.



Base station test

As your base stations evolve to include new technologies such as HSPA and LTE, Agilent test equipment updates will be available to meet your needs.



Mobile test

Whatever the technology, Agilent has the handset manufacturing test tools to meet your needs. More than 50 percent of all phones produced worldwide are tested with Agilent equipment, so you can count on the market leader to give you the right results and keep your cost of test under control.



Interoperability test

Interoperability among handset and base station equipment from different vendors is key to operators minimizing customer complaints. Using Agilent test equipment for full and early testing of designs helps ensure live network testing goes smoothly and quickly.



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**Research and
Development
Manufacturing**



Compliance Testing

Not just conformance, but a whole lot more.

Where earlier technologies relied on conformance testing which focused on RF performance and ensuring a new device adhered to standards mainly aimed at providing voice call service, new data-centric technologies such as HSPA and LTE face a whole new testing paradigm.

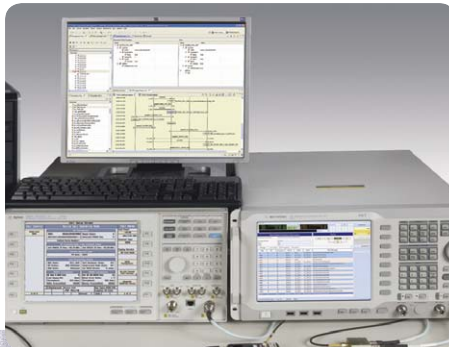
Device suppliers and mobile network operators must ensure end-users are delighted with the performance of their new gadget under all circumstances – from simple voice calling to social networking and location-based augmented reality.

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Mobile UE LTE Development Test

The Agilent E6621A PXT wireless communication test set is designed to provide leading-edge solutions for the LTE UE development lifecycle. The PXT supports optional 6 GHz frequency coverage and integrated MIMO 2x2 capability.



Signaling Conformance Test

The new E6621A PXT is the basis for Agilent's N6070A Signaling Conformance Test solution for LTE. The system also supports Inter-RAT handovers to/from 1xEV as well as other 3GPP technologies. Our partnership with Anite adds industry-leading 3GPP full-compliance systems from GSM to HSPA.



RF Conformance Test Solutions

The specified RF environment for LTE includes not only basic signal transmission and reception, but also multiple input multiple output (MIMO) scenarios with up to four separate transmitters and receivers. Agilent's scalable range of RF precompliance to full conformance test systems cover cellular technologies from GSM to HSPA, and is augmented by the addition of the E6621A PXT to extend the range to include LTE, with its requirement for at least downlink 2x2 closed loop MIMO test.



Cell site test

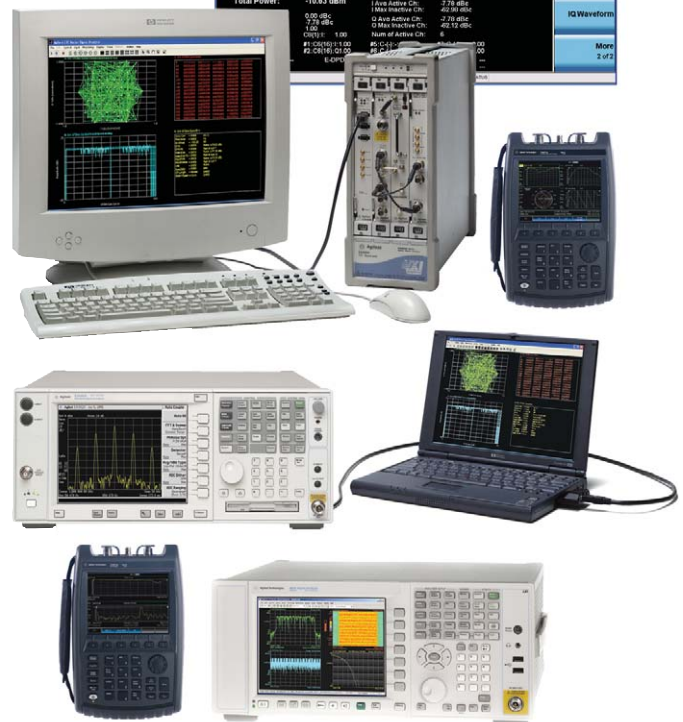
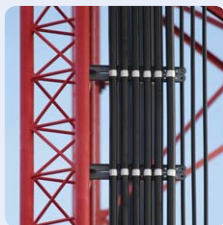
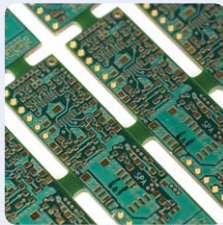
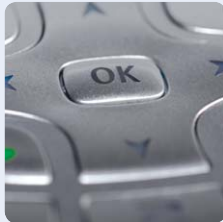
With Agilent's range of FireFox handheld test tools, you can do more in the field in less time – rapidly troubleshoot defective devices in cable/antenna systems, detect, identify and eliminate interference signals and easily test multiple technologies on multiple frequency bands.

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Solutions for High-Speed Cellular

Agilent offers a full range of design, and test solutions that span the range of cellular technologies - from legacy 3GPP 2G systems through 3G to HSPA and LTE, and from cdma2000 to Revision B of 1xEV-DO. These solutions span the cellular lifecycle from early design and development, through manufacturing, to conformance test and field service.



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LAN eXtensions for Instruments puts the power of Ethernet and the Web inside your test systems. Agilent is a founding member of the LXI consortium.



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PCI eXtensions for Instrumentation (PXI) modular instrumentation delivers a rugged, PC-based high-performance measurement and automation system.

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