Move Forward to What’s Possible in WiMAX™
WiMAX, a standards-based technology enabling the last mile wireless broadband access, is an alternative to cable and DSL – eliminating the need for direct line-of-sight with a base station. This technology utilizes OFDM modulation in the physical layer for Fixed WiMAX and scalable OFDMA with MIMO/STC for Mobile WiMAX.

As a world leader in test and measurement solutions, Agilent Technologies continues to be at the forefront of this emerging market, offering WiMAX design and test solutions that span the entire technology lifecycle – R&D, design verification & pre-conformance, conformance, manufacturing, through network deployment & service assurance.

**You take WiMAX forward. Agilent clears the way.**

As a member of the WiMAX Forum®, Agilent is an active participant in the development of WiMAX conformance test procedures and documents. We have been at the forefront of providing standard-compliant design and test tools for WiMAX applications and maintain our leadership position by continuing to provide new tools for enabling technologies such as MIMO and DigRF.

Our engineers, experts in test and measurement, have dedicated themselves to understanding the intricacies of this evolving standard to provide you with the solutions you need, when you need them. So, as you take WiMAX forward, we’re here to clear the way.

www.agilent.com/find/wimax
When you are working on Fixed or Mobile WiMAX designs, Agilent can help you get them from concept to customer – faster. Our R&D engineers understand the challenges you face developing new products, especially with a phased technology such as WiMAX, and are determined to make sure test is never an obstacle for you. Only Agilent delivers a complete, integrated R&D design and test environment, including simulation, characterization and evaluation tools.

**Agilent’s R&D Solutions for WiMAX:**

- SystemVue (Baseband PHY design)
- Advanced Design System (RF design)
- E6651A Mobile WiMAX Test Set
- PXB Baseband Generator and Channel Emulator
- Signal Studio Software with the Agilent MXG and ESG Vector Signal Generators
- 89600 Series Vector Signal Analysis Software
- MXA Signal Analyzer
- PXA Series Spectrum Analyzer
- Digital Vector Signal Analysis (DVSA) with a Logic Analyzer
- PNA-X Network Analyzer
- ENA Series Network Analyzer
- RDX Solution for DigRF v3 and v4
- DSO90000 Series Ultra High Performance Oscilloscopes
- Mobile Communications DC Source with Device Characterization Software

Among our WiMAX R&D tools are the Agilent PXB baseband generator and channel emulator, the MXA signal analyzer, SystemVue software (above) and the 89600 802.16 WiMAX modulation analysis software.

[www.agilent.com/find/wimax](http://www.agilent.com/find/wimax)
Design Verification & Pre-Conformance

Once your design is complete, you need to ensure it conforms to the 802.16-2004, 802.16e-2005 and 802.16Rev2 standards. Agilent offers pre-conformance and design-validation test systems built around our test tools. Agilent’s test solutions let you check your new products against RF PHY requirements called for in the WiMAX Forum’s RCT documents and IEEE 802.16 specifications. So you can determine if your product will be allowed to operate in the defined geographic region. In addition, you will improve your interoperability with other WiMAX certified equipment.

Agilent’s Design Verification & Pre-Conformance Solutions for WiMAX:

• E6651A Mobile WiMAX Test Set
• N6422C/23C WiMAX Wireless Test Manager
• Signal Studio Software with the Agilent MXG and ESG Vector Signal Generators
• 89600 Series Vector Signal Analysis Software
• MXA Signal Analyzer
• PXA Series Spectrum Analyzer
• N8300A Wireless Networking Test Set
• N7300 Series Chipset Software
• Digital Vector Signal Analysis (DVSA) with a Logic Analyzer
• ENA Series Network Analyzer
• DSO90000 Series Ultra High Performance Oscilloscopes
• Mobile Communications DC Source with Device Characterization Software

Among our WiMAX design verification and pre-conformance test tools are Agilent MXG vector signal generators with Signal Studio software, spectrum analyzers and Mobile WiMAX test sets.

www.agilent.com/find/wimax
Conformance Test

Conformance test ensures interoperability with other WiMAX equipment and a positive end-user experience for your customers. With Agilent’s suite of WiMAX test solutions, built on proven platforms, you can approach interoperability and conformance testing with very high confidence.

Protocol Conformance Test (PCT)
Agilent’s N6430A family of IEEE 802.16-2004/Cor2 D3 Protocol Conformance Test (PCT) solutions are based on the Agilent E6651A Mobile WiMAX test set. The N6430A product family provides protocol designers with a TTCN-3 scripting interface which supports script development for design needs, as well as the ability to run the ETSI validated protocol test cases in accordance with the WiMAX Forum PCT certification requirements. Network conformance test (NCT) capability is also available. For more information, please visit www.agilent.com/find/pct www.agilent.com/find/nct.

Radiated Performance Test (RPT)
The E6651A is also used in radiated performance test (RPT) systems. RPT is part of the WiMAX Forum’s product certification process. The E6651A, used by ETS-Lindgren in its AMS-8500 RPT system, enables these RPT measurements to be made and helps assure customers of their product quality. For more information on RPT, please visit www.wimaxrpt.com.

Radio Conformance Test (RCT)
Agilent’s range of WiMAX test products incorporate the latest industry-required measurements and are found in the AT4 Wireless MINT RCT System. WiMAX Forum Certified™ tests conformance and interoperability of WiMAX base station and subscriber-station products. AT4 Wireless is a WiMAX Forum designated certification laboratory. For more information on AT4 Wireless visit www.at4wireless.com.

www.agilent.com/find/wimax
In the manufacturing environment you feel intense time-to-market pressures, especially for new technologies such as WiMAX. You need to get your products to market ahead of your competitors, while protecting your profit potential and ensuring the shortest testing time. With Agilent’s portfolio of fast, accurate, flexible and cost-effective test solutions, plus local support services, you can stay on top of the evolving standard while meeting your manufacturing throughput and time-to-market goals.

**Agilent’s Manufacturing Solutions for WiMAX:**

- N8300A Wireless Networking Test Set
- N7300 Series Chipset Software
- EXA Signal Analyzer
- Signal Studio Software with the Agilent MXG, or MXG ATE Vector Signal Generators
- 89600 Series Vector Signal Analysis Software
- ENA Series Network Analyzer
- Multifunction RF Switch/Measurement Unit
- Agilent MXZ-1000 WiMAX Manufacturing Test System

Among our WiMAX manufacturing test tools are the Agilent Wireless Networking Test Set, the Agilent MXG or MXG ATE vector signal generator with Signal Studio software, or waveform 5-pack license, the Agilent EXA signal analyzer, and the WiMAX Manufacturing System that is developed according to your specific system requirements.

www.agilent.com/find/wimax
Successfully installing, optimizing, and troubleshooting your WiMAX network is critical to the growth of your customer base, and your revenue. Having the right test and measurement tools in place to do this is essential. Agilent is dedicated to helping you face the challenges associated with new technologies such as WiMAX. We do this by providing you with the right network deployment and service assurance tools, when you need them.

**Agilent’s Network Deployment and Service Assurance Solutions for WiMAX:**

- E6474A Wireless Network Optimization Platform
- W1314A-E01 Multiband WiMAX Receiver
- N9912A FieldFox RF Analyzer
  (Handheld cable and antenna analyzer, spectrum analyzer, power meter, and more)
- N9340B Handheld RF Spectrum Analyzer
- N9330B Handheld Cable and Antenna Tester
- E6000C Agilent Mini-OTDR

Among our WiMAX network deployment and service assurance tools are the Agilent handheld cable and antenna tester, the handheld FieldFox RF analyzer, and the Agilent wireless network optimization platform.
Remove all doubt

Our repair and calibration services will get your equipment back to you, performing like new, when promised. You will get full value out of your Agilent equipment throughout its lifetime. Your equipment will be serviced by Agilent-trained technicians using the latest factory calibration procedures, automated repair diagnostics and genuine parts. You will always have the utmost confidence in your measurements. For information regarding self maintenance of this product, please contact your Agilent office.

Agilent offers a wide range of additional expert test and measurement services for your equipment, including initial start-up assistance, onsite education and training, as well as design, system integration, and project management.

For more information on repair and calibration services, go to:

www.agilent.com/find/removealldoubt

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