

KEYSIGHT TECHNOLOGIES (AGILENT HP)

E6651A

The Keysight (formerly Agilent) E6651A is a comprehensive Mobile WiMAX Test Set designed for the development, verification, and protocol conformance testing of IEEE 802.16e-2005 mobile stations. It integrates flexible base station emulation with high-performance RF parametric signal generation and analysis up to 6 GHz.

SPECIFICATIONS

Protocol and Baseband Emulation

Supported Standards	IEEE 802.16e-2005 (Mobile WiMAX)
Duplexing Scheme	TDD (Time Division Duplex)
Channel Bandwidths	5 MHz, 7 MHz, 8.75 MHz, 10 MHz
MIMO Wave 2 Modes	Downlink STC (Matrix A), Downlink Spatial Multiplexing (Matrix B), Uplink Collaborative Spatial Multiplexing

System and Controller Specifications

Automation Software Support	N6422C WiMAX Wireless Test Manager
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Modulation

Supported Modulations	QPSK, 16QAM, 64QAM
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Measurements

WiMAX Transmitter Measurements	Power, EVM, Frequency Error, CINR, Spectral Flatness, Occupied Bandwidth, Spectrum Emission Mask (SEM), Adjacent Channel Power Ratio (ACPR)
WiMAX Receiver Measurements	Packet Error Rate (PER), Bit Error Rate (BER)

TECHNOLOGY

WiMAX (IEEE 802.16e-2005)

APPLICATIONS

Mobile station development, protocol verification, RF parametric testing, and manufacturing test automation

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