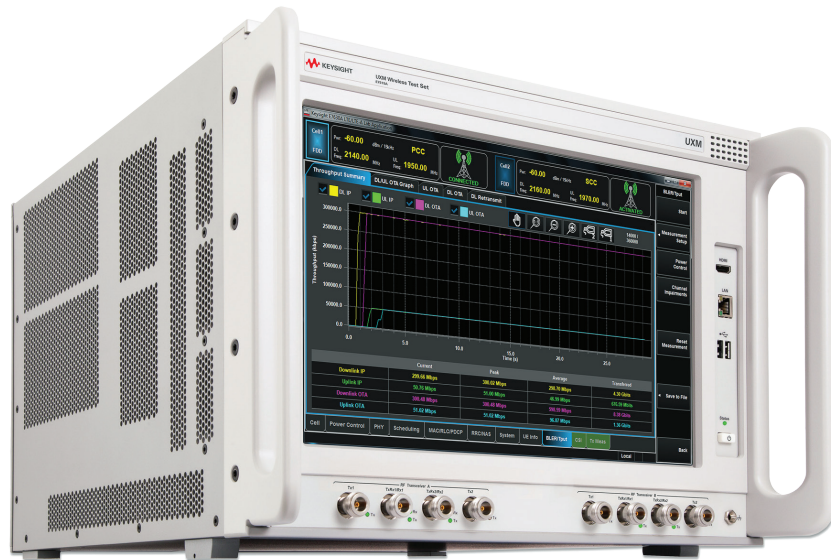# Keysight E7515A
UXM Wireless Test Set

Make a clear call

The team looks to you: will a new chipset or UE pass the crucial tests? Clarity comes from accumulated insights — insights enabled by the Keysight Technologies, Inc. UXM wireless test set. The UXM is a highly integrated signaling test set created for functional and RF design validation in the 4G era and beyond. It provides the capabilities you need to test the newest designs, delivering LTE-Advanced Pro data rates up to 1 Gbps now and handling more complex requirements later. When the team counts on you, count on the UXM to help you make a clear call.

Gain new insights with a broad range of integrated capabilities for LTE-Advanced design validation

– Stable, bi-directional, end-to-end data throughput and flexible receiver test
– Highly integrated solution with multiple cells, carrier aggregation, multiple-input/multiple-output (MIMO), internal fading, and built-in server
– Emulation of complex network scenarios for extensive functional performance test
– Proven Keysight X-Series measurement science for RF performance test

Be ready for functional and RF design validation in 4G and beyond

– Future-ready, multi-format platform to handle the next advancements in antenna techniques, component carriers, and data rates
– Extensible architecture includes high-speed interconnects, upgradeable processors, and multiple expansion slots
– Versatile display capabilities with 15-inch touch screen interface

Make a seamless transition to the UXM

– New-yet-familiar user interface based on popular Keysight solutions
– Leverage your existing Keysight 8960 software investments with UXM Equivalent Seat Licenses (ESL)

KEYSIGHT
TECHNOLOGIES

Assess design readiness with greater confidence

Integrated capabilities for LTE-A design validation

Ensure LTE/LTE-Advanced devices can achieve and sustain maximum data rates up to 1 Gbps DL, 100 Mbps UL

– Evaluate true CA performance with stable, bidirectional data throughput for up to 5CC[1] downlink and 2CC uplink, including support for FDD-TDD mixed CA, LTE-U/LAA and CSAT, 256QAM downlink and CA handover

– Realistically test data performance and reduce bench-top complexity with built-in application server, integrated independent fading for each carrier, and DL MIMO up to 8x4

– Find throughput faults sooner with unique receiver-test capabilities such as flexible, yet easy-to-configure, channel allocation and closed-loop testing

Go deeper in functional test by emulating a wide range of complex network operations

– Check LTE intra-RAT and LTE inter-RAT mobility with W-CDMA, TD-SCDMA, or GSM using two independent cells (built-in), or connect to another UXM or the Keysight 8960 Series 10 wireless test set to verify multi-cell wireless handover scenarios

– Evaluate end-to-end IMS/VoLTE, WLAN calling/offload, (F)eICIC and TM9 with flexible network settings in a simple desktop setup

– Ensure your Internet of Things devices meet requirements for stability, power consumption, and interoperability: the UXM supports Cat 1, NB-IoT and CAT-M1 with connected and IDLE mode eDRX for comprehensive battery drain testing

– Quickly check protocol messaging with the UXM's internal logger or thoroughly analyze time-aligned, multi-format messaging with Wireshark-based software

Check RF performance and troubleshoot problems with trusted X-Series measurement applications

Achieve greater confidence in RF performance

– Check transmitter compliance and troubleshoot problems with industry-proven X-Series measurement applications

– Simplify your MIMO OTA antenna performance verification with support of all standard test methods

– Easily modify parameters without dropping the connection and watch for changes in RF performance

– Test from early designs to finished products: the UXM supports measurements with signaling or using test modes making it easy to "just connect" and focus on RF validation.

Functional and RF design validation in 4G and beyond

Test the latest LTE-A features now and easily expand capabilities and test coverage later

– Meet today's 4G test challenges with multiple cells, DL and UL carrier aggregation, DL MIMO up to 8x4, and integrated fading, enabled by an industry-leading combination of two independent 100-MHz RF transceivers

– Eliminate the cost and downtime of upgrades with a future-ready, multi-format platform that will handle the next advancements in antenna techniques, component carriers, and data rates

– Evolve as technology advances: the UXM's extensible architecture includes high-speed interconnects, upgradeable processors and multiple expansion slots

Dig into issues and evaluate problems quickly with a flexible 15-inch touch screen interface

– Simplify hands-on testing with an intuitive and easy-to-use graphical user interface

Make a seamless transition to the UXM

Get up and running quickly with a new-yet-familiar user interface

– Apply your knowledge of X-Series measurement applications and other popular Keysight test sets and software

Reuse existing test software with minimal changes

– Simplify your transition with the expertise of local application engineers

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1. Connect UXMs in an array to enable up to five component carriers and handovers between multiple synchronized cells.

www.keysight.com/find/uxm
www.keysight.com/find/e7515a

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