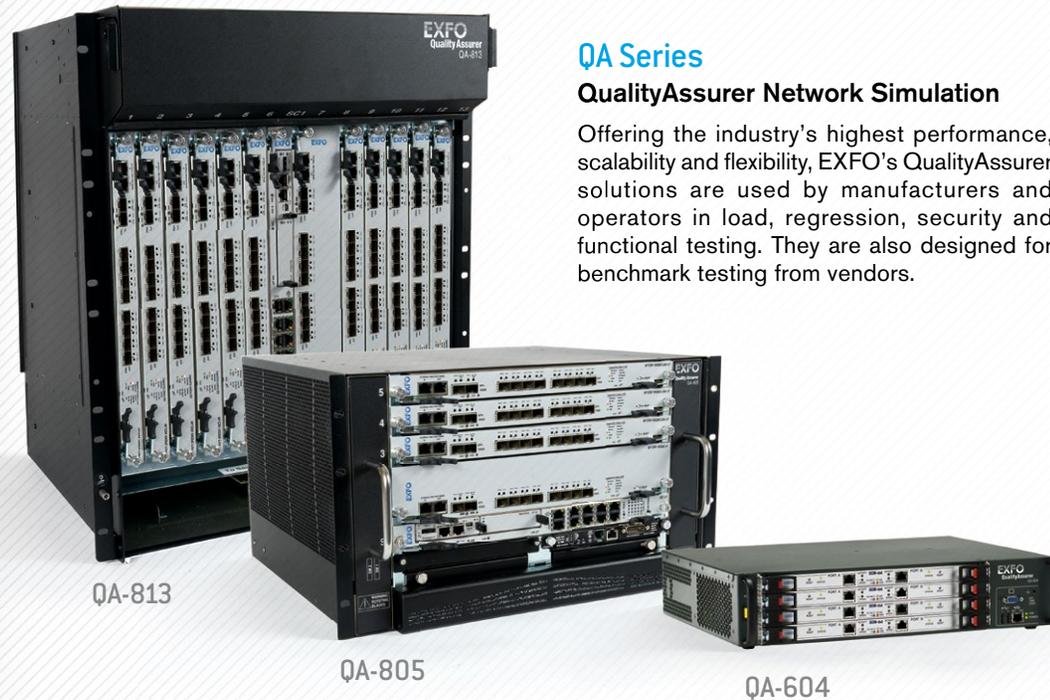# Wireless Simulator Product Line

## QualityAssurer Platform

**High-Performance, High-Capacity, Flexible, Reliable and Easy-To-Use Wireless (2G/3G/CDMA, Femtocell, LTE), IMS and VoIP Network Testing**



QA-813

QA-805

QA-604

### QA Series

**QualityAssurer Network Simulation**

Offering the industry's highest performance, scalability and flexibility, EXFO's QualityAssurer solutions are used by manufacturers and operators in load, regression, security and functional testing. They are also designed for benchmark testing from vendors.

### QA-813

› 13-unit rack-mounted option

› Emulation of over 13 million LTE or IMS subscribers

› 13 million data sessions

› 3.25 million RTP streams

› 130 Gbit/s of user-plane data generation and analysis

### QA-805

› Six-unit rack-mounted option

› Emulation of over 5 million LTE or IMS subscribers

› 5 million data sessions

› 1.25 million RTP streams

› 50 Gbit/s of user-plane data generation and analysis

### QA-604

› 2-unit rack-mounted or desktop option

› Emulation of over 2 million IMS subscribers

› Line-rate generation and analysis of 128,000 RTP/SRTP streams

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# Wireless Simulator Product Line

## Applications

### IMS and VoIP Testing

› Line-rate-media, e.g., real-time transport protocol (RTP) and secure real-time transport protocol (SRTP), throughput generation and analysis in real time

› Scalable, high-performance signaling (e.g., diameter) test solution with zero performance degradation

› Tailored for security testing such as DoS, ToS, IPSEC and TLS

› Accurate hardware-based signaling and media-quality KPI measurements

› IP multimedia subsystem (IMS) network emulation for testing session border controllers (SBC) and EPC-to-IMS interworking

### Wireless Core Testing (2G, 3G, CDMA and LTE)

› Industry leading performance on both control and user planes

› Industry-unique, wireless-focused feature set for quick verification and characterization of the system under test

› Extensive traffic modeling capabilities enabling real-world conditions to be recreated in the lab

› Converged solution spanning 2G/3G/CDMA/LTE, with interworking and mobility between these domains

› Breadth of coverage across all domains to enable testing of elements in isolation or in any combination, including end-to-end testing of the complete wireless core

› Unmatched flexibility for quick adaptation to evolving standards, new features and applications, and lab-specific test requirements

### Small Cell Testing (3G and LTE)

› Support for both 3G and LTE small cell testing based on the latest specifications

› Emulation of the security gateway and femto gateway for the purpose of validating all security profiles and deployment use cases

› Ability to be used with real user equipment (UE) and easy integration with any UE simulator for wraparound testing of small cells.

› Absolute flexibility for performing negative and customized testing

### LTE/RAN Testing

› Compliance with the latest 3GPP specifications

› Support of advanced features such as SON, RIM and IRAT scenarios with legacy networks

› Unmatched flexibility providing the ability to test tailor-made scenarios and negative conditions

› High-performance modules for validating maximum capability on both the signaling and user plane

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