

EX10 – Multigigabit residential and business services tester

FOR VALIDATING GPON, XGS-PON

- The EX10 helps onsite technicians easily validate bandwidth speeds up to full line rate 10 Gigabit Ethernet (including GPON, XGS-PON) and test residential WiFi 6E to monitor residential quality of experience (QoE).



WiFi testing

KEY FEATURES AND BENEFITS

Multigigabit validation including 1, 2.5, 5 and 10 Gigabit interfaces powered by Speedtest® by Ookla®

Latency, download and upload throughput performance metrics with adjustable pass/fail thresholds based on subscribers' purchased plans

Supports GPON, XGS-PON with PON ID, ONU ID, central office transmit optical level (TOL) and optical distribution network (ODN) loss (upcoming release)

SFP/SFP+ interface for Speedtest over fiber (upcoming release)

WiFi 6E testing (2.4 GHz, 5 GHz and 6 GHz bands) (upcoming release)

Wireless interface (WiFi) supporting Speedtest and channel map (upcoming release)

Carrier-grade hardware for repeatable and reliable testing

Operated via smart device over Bluetooth®

Automated cloud-upload results via EXFO Exchange (upcoming release)

Efficient job closeout with best-in-class birth certificate generation (reports in JSON, XML, PDF or CSV formats can be sent by email, SMS or applications directly to subscriber or stored in the cloud for future reference)

Supports VLAN, Static IP, DHCP (with or without Option 60) and PPPoE

APPLICATIONS

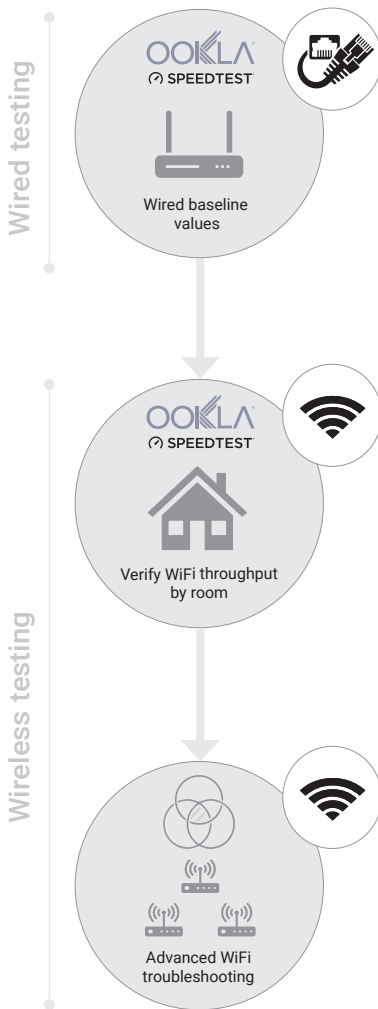
Broadband validation

WiFi optimization

QoE: Validate core services

BROADBAND ACCESS: VALIDATE, TROUBLESHOOT AND OPTIMIZE

The EX10 provides both wireline and wireless testing capability, providing comprehensive insights that field technicians can use to remedy any situation. Operators can prove they deliver both promised throughput and unparalleled quality of experience at the customer premises.



WIRED

The EX10 is the first device to include all cutting-edge multigigabit interfaces in a simple yet unique tester that anyone with a smart device can use. It has the capability of turning up 1, 2.5, 5 or even 10 Gigabit Ethernet interfaces for validating broadband access.

WiFi VALIDATION (UPCOMING RELEASE)

The EX10 can validate WiFi 5, 6 and cutting-edge WiFi 6E delivery from room to room. The device uses Speedtest by Ookla to determine whether a room can support video streaming of SD, HD, 4K and even upcoming 8K resolution. All rooms can be validated for proper delivery of over-the-top (OTT) video streaming services.

ADVANCED WiFi TROUBLESHOOTING (UPCOMING RELEASE)

The EX10 can also utilize other troubleshooting techniques such as viewing WiFi channel metrics room by room. It has the capability of retrieving the received signal strength indicator (RSSI) and the signal-to-noise ratio (SNR) to enable technicians in properly diagnosing WiFi issues.

The EX10 provides technicians with insight to solve WiFi issues: moving the router, changing channels or using extenders.



THE RIGHT FEATURES FOR THE RIGHT APPLICATION

Residential

Validate customer service-level agreements (SLA) and prove that service delivery is as promised. From 1G to 10G, the EX10 delivers reliable and repeatable metrics along with the birth certificate to share with the subscriber.

GPON/XGS-PON (upcoming release)

Guarantee speeds up to 10G on your XGS-PON link while also ensuring connection to the right OLT. With PON ID, ONU ID and TOL and ODN loss, the EX10 is loaded with all the right tools for successful service activation on the first try, without even entering customer premises.

WiFi (upcoming release)

Ensure full and seamless user-experience to subscribers by leveraging the EX10's WiFi capabilities. Guarantee 8K video streaming—for each room in the dwelling—while working at home. The EX10 supports the latest WiFi 6E technology, making it now possible to validate WiFi speeds greater than 1G, everywhere on customer premises.

A COMPLETE TESTING ECOSYSTEM

The EX10 is part of a comprehensive ecosystem designed to ensure seamless service delivery. The connected device securely connects to EXFO Exchange enabling test data management capabilities. This means easier access and better visibility into tests results, which translate into data-driven insights through powerful analytics.

The EXFO ecosystem includes essential testers that are interconnected through EXFO Exchange, a collaborative software platform for deploying and maintaining high-quality telecom networks more efficiently. EXFO Exchange interconnects all aspects of the field test ecosystem (including field teams, test results, hardware and software) in a virtual hub. The platform automates and optimizes field testing and reporting, workflows, troubleshooting processes.



EXFO Exchange: EXFO'S collaborative software platform for deploying and maintaining high-quality telecom networks.

* Tester soon to be integrated into the ecosystem.

SPECIFICATIONS

GENERAL SPECIFICATIONS

Size (H x W x D)	105 mm x 200 mm x 60 mm (4 1/16 in x 7 13/16 in x 2 3/8 in)
Weight	0.8 kg (1.75 lb)
Temperature	Operating Storage with battery (short term < 1 month)
	0 °C to 40 °C (32 °F to 104 °F) –10 °C to 40 °C (14 °F to 104 °F)
Relative humidity range	≤ 93 %, non-condensing

INTERFACES

Electrical RJ45 test port	100/1000/2500/5000/10000 Mbit/s
Optical SFP test port (upcoming release)	1GE SFP, SFP GPON ONT (2.4 Gbit/s download and 1.2 Gbit/s upload) and 10GE SFP+, SFP+ XGS-PON ONT (10 Gbit/s download and 10 Gbit/s upload)
USB port	USB 3.0 type-C port
Bluetooth	Bluetooth v5.0
WiFi	WiFi 6E (2.4 GHz, 5 GHz and 6 GHz)

BATTERY/POWER SUPPLY

Type	Rechargeable Li-ion smart battery
Battery autonomy	One full day of customer visits (i.e., average of 10 residential broadband customer visits)
Charging time	3.5 h using supplied wall charger
AC/DC adapter/charger	Input: 100–240 VAC; 50/60 Hz; 1.0 A max, output: 5 V, 9 V, 12 V, 15 V; 3.0 A and 20 V; 2.25 A

SMART DEVICE REQUIREMENTS

Smart device supported	Android OS and iOS-based devices
OS version	Android 7.0 Nougat and higher, iOS 13 and higher
Bluetooth support	Bluetooth low energy technology (version 4.0 and higher)

SPEED TEST CAPABILITIES

Speedtest® by Ookla®	<ul style="list-style-type: none"> • Latency • Download speed • Upload speed • Server information • Client WAN IP 	<ul style="list-style-type: none"> • Multi or single TCP connection • Automatic/manual server selection with search engine • Pass/fail verdict based on thresholds • Configurable job information • JSON/XML/PDF/CSV automatically generated reports
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WiFi TESTING CAPABILITIES

Channel map	<ul style="list-style-type: none"> • Support of WiFi 5, 6 and 6E (802.11ax/ac/a/b/g/n) • Support of 2.4 GHz, 5 GHz and 6 GHz frequency bands • Visualization of WiFi channel map analysis • Channel map filtering based on signal level: excellent, good, fair, weak • Information per access point: BSSID, manufacturer, channel number, frequency and RSSI • Graphical selection of access points for clarity and in-depth troubleshooting
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MISCELLANEOUS (UPCOMING RELEASE)

PPPoE	Ability to enter a user name and password, PPPoE connection status, and always on or on-demand connection mode, PAP and CHAP support
VLAN	Ability to enter a VLAN ID, priority and type

ORDERING INFORMATION

EX10

Model ■

EX10 = Full line rate Gigabit Ethernet testing capability
Speedtest by Ookla over electrical/optical Ethernet and WiFi.

ORDERING INFORMATION

EX10-PRO

Model ■

EX10-PRO = Full line rate Gigabit Ethernet testing capability
Speedtest by Ookla over electrical/optical Ethernet and WiFi.

Provided by: Mega Hertz 800-883-8839 info@go2mhz.com www.go2mhz.com
<https://www.go2mhz.com/product/ex10-multigigabit-residential-and-business-services-tester/>

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