EX10 FTTH Residential Services Tester

MULTI-GIGABIT AND WIFI 6E TESTER

WiFi testing

The EX10 helps operators validate bandwidth speeds up to full line rate 10 Gigabit Ethernet, test residential WiFi 6E and monitor residential quality of experience.

KEY FEATURES AND BENEFITS

Multi-gigabit validation including 1, 2.5, 5 and 10 Gigabit interfaces powered by Ookla Speedtest

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

SFP/SFP+ interface for Speedtest over fiber

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

Wireless interface (WiFi) supporting Speedtest and channel map

Carrier-grade hardware for repeatable and reliable testing

Operated via smart device over Bluetooth

Automated cloud-upload results via Exchange

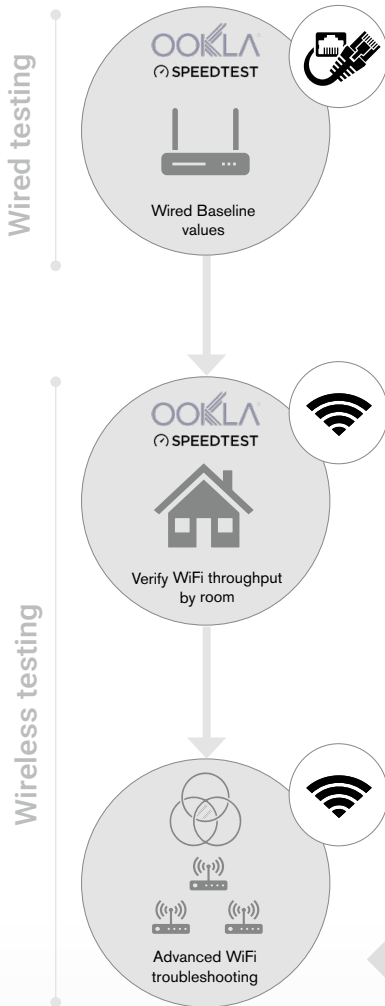Share reports via email, SMS, applications

APPLICATIONS

Broadband validation

WiFi optimization

QoE: Validate core services

EXFO

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

EXFO's EX10 is the first device to include all cutting-edge multi-gigabit interfaces in a simple one-of-a-kind tester that anyone with a smart device can use. The EX10 enables you to turn up 1, 2.5, 5 or even 10 Gigabit Ethernet interfaces so you can validate broadband access.

WIFI VALIDATION

EXFO's EX10 can validate WiFi 5, 6 and cutting-edge WiFi 6E delivery from room to room. The EX10 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

The EX10 can also utilize other troubleshooting techniques such as viewing WiFi channel metrics room by room. Being able to retrieve the received signal strength indicator (RSSI) as well as the signal-to-noise ratio (SNR) both enabling field techs to properly diagnose WiFi issues.
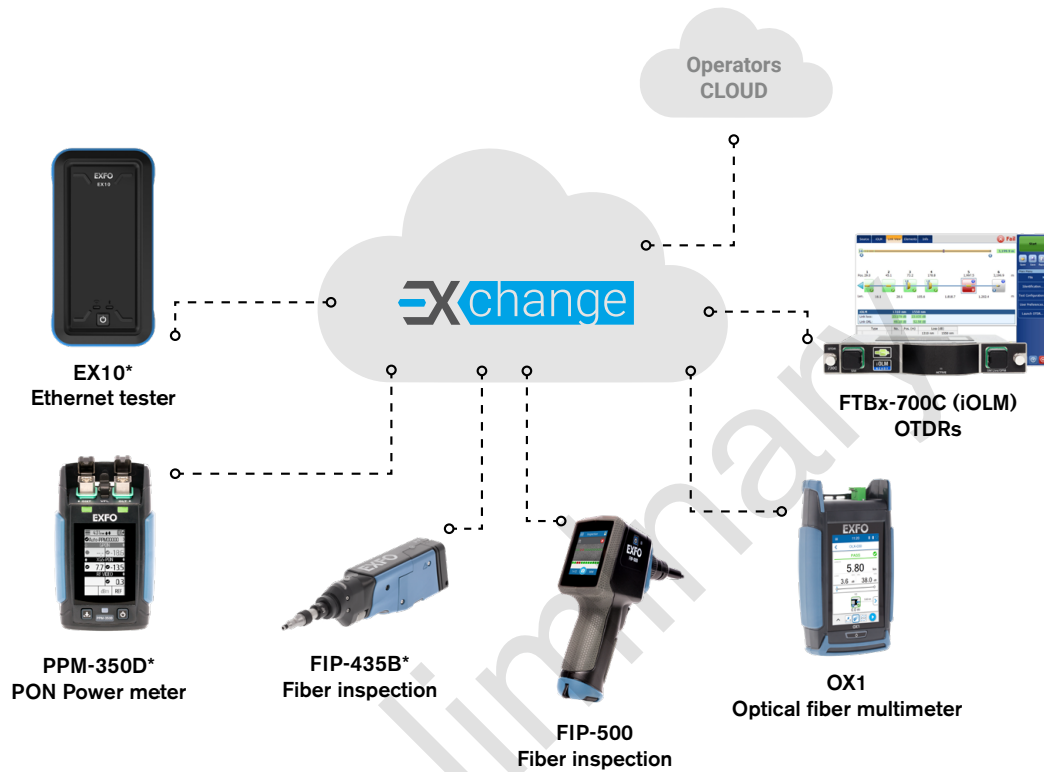
The EX10 gives field technicians comprehensive knowledge they can use to choose solutions for WiFi issues: moving the router, changing channels or using extenders to optimize customer quality of experience.

EXFO ECOSYSTEM

The EX10 is part of EXFO's product ecosystem. This connected device delivers efficient and secure data management capabilities via EXFO Exchange services. This means easier access and better visibility on tests results, which translate into data-driven insights through powerful analytics.

The EXFO ecosystem is comprised of the following solutions. Those marked with an asterisk (*) are to be integrated soon.

EX10*
Ethernet tester

PPM-350D*
PON Power meter

FIP-435B*
Fiber inspection

FIP-500
Fiber inspection

OX1
Optical fiber multimeter

FTBx-700C (iOLM)
OTDRs

Operators CLOUD

SPECIFICATIONS

GENERAL SPECIFICATIONS		
Size (H x W x D)		105 mm x 200 mm x 60 mm (4 $\frac{1}{16}$ in x 7 $\frac{13}{16}$ in x 2 $\frac{3}{8}$ in)
Weight		0.8 kg (1.75 lb)
Temperature	Operating	0 °C to 40 °C (32 °F to 104 °F)
	Storage w. battery (short term < 1 month)	−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	Optical 1GE SFP and 10GE SFP+
USB port	USB 3.0 type-C port
Bluetooth and WiFi	Bluetooth v5.0 and 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; 2.4 A

SMART DEVICE REQUIREMENTS	
Smart device supported	Android OS and iOS-based devices
OS version	Android 6.0 Marshmallow and higher, iOS 11 and higher
Bluetooth support	Bluetooth low energy technology (version 4.0 and higher)

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SPEED TEST CAPABILITIES

Ookla Speedtest	• Latency • Download speed • Upload speed • Server information • Client WAN IP	• Multi or single TCP connection • Automatic/manual server selection with search engine • Pass/fail verdict based on thresholds • Configurable job information • PDF/CSV automatically generated reports

WiFi TESTING CAPABILITIES

Channel map	• Support of WiFi 5, 6 and 6E • 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

MISCELLANEOUS

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.

EXFO