

FTB Lite 720D connected access OTDR

OPTIMIZED FOR MULTIMODE AND
SINGLEMODE ACCESS NETWORK
CONSTRUCTION AND TROUBLESHOOTING

■ Dedicated OTDR with **always-on connectivity** and optimized usability to carry out any access network testing in the most efficient, compliant and secure way.

BUILT IN
EXchange



3-year
warranty



Swap-Out
connector

**iOLM
READY**



NOW WITH ALWAYS-ON
LTE CONNECTIVITY



KEY FEATURES

Free 36-month basic data plan provided for real-time visibility

Bluetooth®, WiFi, 2G/3G/4G LTE, GNSS

8-inch (203-mm) color touchscreen for use in bright sunlight environments or any environment where you conduct tests

Up to 10-hour battery autonomy

Live and dark fiber characterization, troubleshooting and activation through the same OTDR port

Dynamic range of up to 36 dB in singlemode (SM) and 29 dB in multimode (MM)

Event dead zone (EDZ) / Attenuation dead zone (ADZ):
0.7/2.5 m in SM and MM, PON dead zone 35 m in SM

FTTx in-service testing at 1650 nm with optional in-line GPON/XGS-PON power meter

Swap-Out connector, replaceable whenever necessary for optimal performance over time without undue service cost and downtime

iOLM-ready: one-touch multiple acquisitions, with clear go/no-go results presented in a straightforward visual format

3-year warranty

APPLICATIONS

Access network construction and troubleshooting

FTTx/PON testing through splitters (up to 1×32)

FTTx service activation: GPON, EPON, XGS-PON, 10GE EPON

Central office link certification

Data center and private networks (Tier-2 certification)

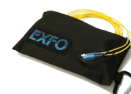
LAN/WAN characterization

Fronthaul/backhaul (FTTA, FTTT, RRH, DAS and small cells)

RELATED PRODUCTS AND ACCESSORIES



Fiber
inspection scope
FIP-500



Soft pulse
suppressor bag
SPSB

FastReporter

Data post-processing
software
FastReporter



Swap-Out
connector



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HOW CONFIDENT ARE YOU ABOUT YOUR TEST PROCEDURES BEING FOLLOWED?

The FTB Lite 700 Series builds upon EXFO's innovation in OTDR testing with a secure, rugged Connected First™ platform.

Did you know?

Technicians set wrong thresholds **40%** of the time and may re-test the same fiber **15%** of the time.

EXFO's FTB Lite 700 Series features always-on connectivity, designed to solve issues, such as lack of compliance and expertise, inefficient processes, and delays in getting the latest updates.

Always-on connectivity provides:

1. **Streamlined compliance and automated validation:** Automated job tracking and real-time reporting confirm adherence to methods of procedure (MoP) ensure compliance with testing standards while reducing errors and administration time.
2. **Enhanced collaboration and efficiency:** Real-time data sharing, automated uploads, and cloud-based reporting enable seamless teamwork, faster decision-making, and accelerated project timelines.
3. **Valuable insights:** Automated access to comprehensive live data to perform analytics and extract insights, enabling informed decision-making and planning.

The FTB Lite 700 Series has direct access to EXFO Exchange workspaces at all times. Onboarding has never been easier with pre-configured access and single sign-on directly from the platform, meaning no more phone pairing.

These advantages, paired with EXFO's reliable, accurate and durable OTDRs, lead to:

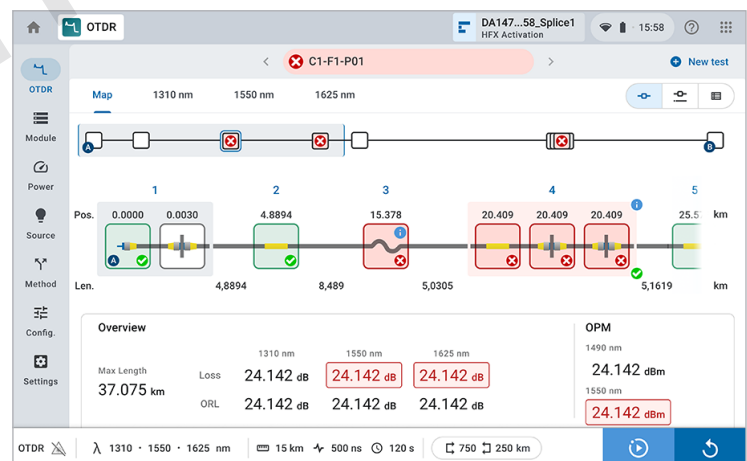
- Faster deployment of jobs to users in the field to ensure compliance and increase the ratio of first-time-right results.
- Faster access to results by managers or supervisors; leading to contractors getting paid quicker.
- Regular unit updates from the field to get latest software.
- Simple and intuitive user interface to minimize training.
- Real-time visibility over unit utilization to ensure equipment is dispatched and used efficiently.

LOOKING FOR ICON-BASED MAPPING?

Optical Link Mapper (OLM) included in all AXS and FTB Lite OTDRs

Interprets OTDR traces automatically and provides an icon-based view of the elements on the link.

- Automatic analysis of multiple wavelengths with a consolidated link view display.
- Synced with events and placed below the linear view to view all events on the link.
- Display of end-to-end link length, loss and ORL according to the pass/fail settings.
- Automatic parameter settings and clear go/no-go results.
- Prompt guidance on what and where the network issues are.



**MULTIPLE
WAVELENGTHS**



**CLEAR CONSOLIDATED
LINK DISPLAY**



**.SOR
FITS YOUR
PROCESSES**



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SWAP-OUT CONNECTOR

The FTB Lite 720D OTDR Series comes with a patented Swap-Out connector that you can easily replace when you need to.

Maintain top optical performance, no downtime.

Worn connectors impact optical performance and may cause inaccuracies. Replace connectors right in the field without needing to return the unit to the manufacturer or spend money on repairs.

Keep your calibration plan on track.

Your calibration date remains the same, even after you swap the connector. There's no need to calibrate your unit sooner than planned.

Replace the connector only when necessary.

The built-in connector health checker runs a diagnosis of the optical port so you can replace worn connectors in the field when you need to.



OPTICAL ADD-ONS (OPTIONAL)

Optical power meter (OPM)

EXFO's high-level power meter (GeX) can measure up to 27 dBm. This is essential for hybrid fiber-coaxial (HFC) networks or high-power signals. If used with an auto-lambda/auto-switching compatible light source, the power meter automatically synchronizes on the same wavelength, thus avoiding any risk of mismatched measurement.

Visual fault locator (VFL)

The plug-and-play VFL easily identifies breaks, bends, faulty connectors and splices, in addition to other causes of signal loss. This basic, yet essential troubleshooting tool should be part of every field technician's toolbox. The VFL visually locates and detects faults over distances of up to 7 km by creating a bright-red glow at the exact location of the fault. High-power VFL is also available as an option to test distances up to 12 km.

ENCIRCLED FLUX (EF) COMPLIANT

For multimode fibers, the EF standard (as recommended in TIA568 via TIA52614B and IEC 6128041 Ed. 2.0) is a way of controlling source launch conditions so that Tier-2 troubleshooting can be performed with maximum accuracy and consistency. The FTB Lite 720D is compatible with an external launch mode conditioner that is EF compliant.





SHARE TEST RESULTS. BOOST COMPLIANCE. UNLOCK INSIGHTS.

Cloud-hosted solution for sharing test results and ensuring compliance.

Paired with EXFO's leading test instruments, EXFO Exchange drives an entire ecosystem while integrating seamlessly with existing operation processes.



FastReporter

Advanced FastReporter capabilities included with EXFO Exchange.

FastReporter is a consolidated data management and postprocessing solution designed to improve results quality as well as auditing and reporting productivity. When logging in to your EXFO Exchange account on your PC, you will have access to all advanced capabilities for FastReporter, including:

- Results viewer
- Advanced reporting formats (Excel, PDF, custom)
- Advanced editing
- Automated validation and results correction

Get
started >



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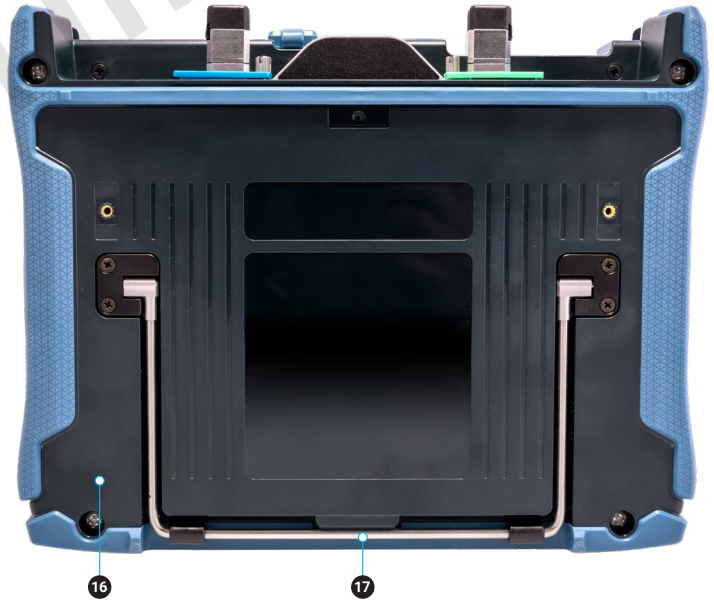
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PRODUCT OVERVIEW

- 1 Singlemode OTDR port
- 2 Swap-Out connector screw
- 3 Testing LED indicator
- 4 Multimode OTDR port (applicable for Q2-QUAD model)
- 5 VFL
- 6 Power meter
- 7 10/100/1000 Mbit/s Ethernet port
- 8 Two USB 3.0 ports
- 9 Charger/battery LED
- 10 USB-C PD port
- 11 Mount for hand/shoulder strap
- 12 Power on/off/stand by button
- 13 Power ON/OFF LED status indicator
- 14 Speaker
- 15 8-inch (203-mm) color touchscreen
- 16 Built-in LTE/WiFi/Bluetooth radios
- 17 Kickstand



SPECIFICATIONS^a

| TECHNICAL SPECIFICATIONS | |
|--|---|
| Wavelength (nm) ^b | 850 ± 20/1300 ± 20/1310 ± 30/1550 ± 30/1650 ± 15 |
| Live wavelength (nm) | 1650 Isolation: 50 dB from 1265 nm to 1617 nm |
| Dynamic range (dB) ^c | 27/29/36/35/35 |
| Event dead zone (m) ^d | SM: 0.7 MM: 0.7 |
| Attenuation dead zone (m) | SM: 2.5 ^e MM: 2.5 ^f |
| PON dead zone (m) ^g | 35 |
| Distance range (km) | MM: 0.1 to 40 SM: 0.1 to 260 |
| Pulse width (ns) | MM: 3 to 1000 SM: 3 to 20 000 |
| MM launch conditions ^h | EF-compliant |
| Linearity (dB/dB) | ±0.03 |
| Loss threshold (dB) | 0.01 |
| Loss resolution (dB) | 0.001 |
| Sampling resolution (m) | MM: 0.04 to 5 SM: 0.04 to 10 |
| Sampling points | Up to 256 000 |
| Distance uncertainty (m) ⁱ | ±(0.75 + 0.0025 % x distance + sampling resolution) |
| Measurement time | User-defined |
| Reflectance accuracy (dB) ^b | ±2 |
| Typical real-time refresh (Hz) | 4 |

IN-LINE POWER CHECKER^{b, j, k}

| | |
|--|------------------------------------|
| Power range (dBm) | -60 to 23 |
| Power uncertainty (dB) ^{l, m} | ±0.5 |
| Calibrated wavelengths (nm) | 1310, 1490, 1550, 1625, 1650 |
| Selectable wavelengths (nm) | 1310, 1490, 1550, 1577, 1625, 1650 |
| Tone detection | 270 Hz/330 Hz/1 kHz/2 kHz |

TECHNICAL SPECIFICATIONS (in-line PON power meter with OPM2 in option)^{a, b}

| | |
|--|--|
| Power range (dBm) | -60 to 23 |
| PON power meter (nm) | Two channels: 1490/1550 and 1490/1577 |
| Power uncertainty (dB) ^{c, d} | ±0.5 |
| Calibrated wavelengths (nm) | 1310, 1490, 1550, 1625, 1650 |
| Selectable wavelengths (nm) | 1310, 1490, 1550, 1577, 1625, 1650, 1490/1550, 1490/1577 |

SOURCE

| | |
|---------------------------------|----------------------------------|
| Output power (dBm) ^e | MM: -2 SM: -8 |
| Modulation | CW, 270 Hz, 330 Hz, 1 kHz, 2 kHz |

a. All specifications valid at 23 °C ± 2 °C with an FC/APC connector, unless otherwise specified.

b. Typical.

c. Typical dynamic range with longest pulse and three-minute averaging at SNR = 1.

d. Typical, for reflectance of -55 dB in SM and -45 dB in MM.

e. Typical, for reflectance at -55 dB, using a 3-ns pulse.

f. Typical, for reflectance at -45 dB, using a 3-ns pulse.

j. Not available when OPM2 is selected.

k. Specifications valid when OTDR not in operation or in idle mode.

l. At calibrated wavelengths.

m. Requires a good entry connector's health.



GENERAL SPECIFICATIONS

| | |
|---------------------------------------|--|
| Display | 8-inch (203 mm), 1280×800, color touchscreen (viewable in sunlight) |
| Interfaces | USB-A ports (2) USB-C port with power delivery RJ45 LAN 10/100/1000 Mbit/s |
| RF comms ^{a, b} | Bluetooth, WiFi, 2G/3G/4G LTE, GNSS (GPS/GALILEO/QZSS) |
| Storage | >20,000 OTDR SOR traces |
| Battery | Rechargeable LiFePO4 battery, up to 10 hours ^c of operation as per Telcordia (Bellcore) GR-196-CORE |
| Power supply | Input: AC/DC adapter, 100 to 240 V AC, 50 to 60 Hz, 1.5 A max. Output: 5 to 20 V DC, 3.0 A max., 45 W max., USB-C power delivery standard supported |
| Weight (including battery and module) | 2.4 kg (5.3 lb) |
| Size (H × W × D) | 198 mm × 249 mm × 71 mm (7.8 in × 9.8 in × 2.8 in) |
| Temperature | Operating: -10 °C to 50 °C (14 °F to 122 °F) Storage: -40 °C to 70 °C (-40 °F to 158 °F) |
| Relative humidity | 0 % to 95 % non-condensing |

BUILT-IN POWER METER SPECIFICATIONS (GeX) (optional) ^d

| | |
|--------------------------------|---|
| Calibrated wavelengths (nm) | 850, 1300, 1310, 1342, 1358, 1490, 1550, 1577, 1625, 1650 |
| Selectable wavelengths (nm) | 850, 1300, 1310, 1342, 1358, 1490, 1550, 1577, 1625, 1650 |
| Power range (dBm) ^e | 27 to -50 |
| Uncertainty (%) ^f | ±5 % |
| Display resolution (dB) | 0.01 = max to -40 dBm 0.1 = -40 dBm to -50 dBm |
| Tone detection (Hz) | 270/330/1000/2000 |

| VFL SPECIFICATIONS | VFL (optional) | HIGH-POWER VFL (optional) |
|--|-------------------------------------|-------------------------------------|
| Operation mode | Flashing (slow/fast) and continuous | Flashing (slow/fast) and continuous |
| Flashing frequency (Hz) | 1 or 4 | 1 or 4 |
| Wavelength (nm) (typical) | 650 | 660 |
| Emitter type | Laser | Laser |
| Power output (mW) (max.) | 1 | 5 |
| Distance range (km) (typical) ^g | 7 | 12 |
| Laser safety class | 2 | 3R |

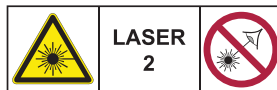
LASER SAFETY ^g (Complies with FDA 1040.10 and IEC 60825-1:2014-05)

Without VFL (option): IEC 60825-1:2014-05



DO NOT EXPOSE USERS OF TELESCOPIC OPTICS

With VFL (option): IEC 60825-1:2014-05



DO NOT STARE INTO BEAM

With high power VFL (option): IEC 60825-1:2014-05



AVOID DIRECT EYE EXPOSURE

Applicability:
Class 1M, 2M and 3R

WARNING: Viewing the laser output with telescopic optical instruments (for example, telescopes and binoculars) may pose an eye hazard and thus the user should not direct the beam into an area where such instruments are likely to be used.

a. Free 36-month basic data plan provided.

b. Restrictions may apply depending on country/region which will prevent EXFO from providing mobile connectivity. Contact EXFO for details.

c. Battery life varies significantly based on device configuration, usage, network and feature configuration, signal strength, settings and other factors.

d. At 23 °C ± 1 °C, 1550 nm and FC connector. With modules in idle mode. Battery operated after 30-minute warm-up.

e. Typical.

f. At calibration conditions.

g. Depends on fiber attenuation and ambient light conditions.



ACCESSORIES (optional)

| | | | |
|-----------|----------------------------------|---------|------------------------------------|
| GP-10-072 | Large size soft carrying case | GP-2242 | Replacement hand strap |
| GP-10-097 | Rigid carrying case | GP-2304 | Spare AC/DC adapter |
| GP-1008 | VFL adapter (2.50 mm to 1.25 mm) | GP-2318 | Replacement kickstand |
| GP-2155 | Carry-on size backpack | GP-3207 | Replacement APC Swap-Out connector |
| GP-2235 | Spare stylus | GP-3208 | Replacement UPC Swap-Out connector |
| GP-2320 | Utility glove | | |

ORDERING INFORMATION**FTB-LITE-720D-XX-XX-XX-XX-XX-XX-XX-XX-XX****Optical configuration**

SM1 = SM OTDR, 1310/1550 nm
SM8 = SM OTDR, 1310/1550 nm and 1650 nm filtered, on the same port
Q2-QUAD = QUAD OTDR, 850/1300 nm and 1310/1550 nm^{a, b}

Base software

OTDR = Enables OTDR application only
OIX = Enables OTDR and base iOLM features^c

SM and MM connector^d

EA-EUI-28 = APC/DIN 47256
EA-EUI-89 = APC/FC narrow key
EA-EUI-91 = APC/SC
EA-EUI-95 = APC/E-2000
EA-EUI-98 = APC/LC
 EI connectors = See section below

OPM option

00 = Without OPM2 option
OPM2 = In-line PON power meter mode (dual band)^e

Inspection scope base tips^f

APC = Includes FIPT-400-U25MA and FIPT-400-SC-APC
UPC = Includes FIPT-400-U25M and FIPT-400-FC-SC

Inspection scope models

00 = Without inspection scope
FIP435B = Wireless analysis digital video inspection scope^g
 Automated focus
 Automated pass/fail analysis
 Triple magnification
 Autocentering

Power meter connector adapter^h

FOA-22 = FC: FC/PC, FC/SPC, FC/UPC, FC/APC
FOA-32 = ST: ST/PC, ST/SPC, ST/UPC
FOA-54B = SC: SC/PC, SC/SPC, SC/UPC, SC/APC
FOA-96B = E-2000/APC
FOA-98 = LC
FOA-99 = MU

Power meter

00 = Without power meter or VFL
VFL = Visual fault locator
VFLHP = High power VFL
VPM2X = VFL and power meter; GeX detector
VPM2XHP = High-power VFL and power meter; GeX detector

Connectivity

FRF = With full RF capability (LTE, GNSS, WiFi and Bluetooth)^{i, j}

Example: FTB-LITE-720D-SM1-OTDR-EA-EUI-89-OPM2-FRF-VPM2X-FOA-22

- a. The two ports are configured with the same adapter type.
 b. MM connector port will be supplied in UPC.
 c. Coming soon. Contact your EXFO representative for details.
 d. MM connectors available in EI (UPC) only.
 e. Available with SM8 model.

- f. Available if inspection scope is selected.
 g. For use with separate mobile smart device running ConnectorMax2 software.
 h. Only available if power meter option is selected. Additional connector adapters available, contact EXFO.
 i. FRF option is mandatory.
 j. Not available in India and China.

EI CONNECTORS

To maximize the performance of your OTDR, EXFO recommends using APC connectors on SM port. These connectors generate lower reflectance, which is a critical parameter that affects performance, particularly in dead zones. APC connectors provide better performance than UPC connectors, thereby improving testing efficiency.

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EXFO serves over 2000 customers in more than 100 countries. To find your local office contact details, please go to www.EXFO.com/contact.

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For the most recent version of this spec sheet, please go to www.EXFO.com/specs.

In case of discrepancy, the web version takes precedence over any printed literature.



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