TEST BETTER. SCALE FASTER. OPERATE SMARTER.

Ensuring reliable outside plant fiber infrastructure for data center interconnects

The Challenge

As AI workloads drive the expansion of data center interconnect (DCI) networks, deployment teams face growing pressure to validate high-fiber-count infrastructure, accelerate service activation, manage larger volumes of test data and maintain quality at unprecedented scale.

The data center interconnect (DCI) landscape



The EXFO solution

EXFO's automated test solutions support the complete data center interconnect lifecycle, from dense fiber deployment through network activation to ongoing monitoring and assurance.

1 Fiber construction

Validate quality across high-fiber-count infrastructure as construction progresses. Certify and document the completed routes for activation.

Test-as-you-build
Verify the right fiber or ribbon before splicing to prevent continuity errors, then test and track each splice as the build progresses. Identify issues immediately, retest remedials and confirm quality before crews leave the site.

Fiber characterization
Characterize and certify completed high-fiber-count routes end to end, establishing the verified baseline and closeout report required for build acceptance and activation.

2 Network activation

Confirm fiber readiness, activate high-speed links and verify end-to-end service performance.

Dormant fiber assurance
Monitor completed routes between build acceptance and service activation to maintain fiber readiness for turn-up.

High-speed link activation
Validate transceivers, (including coherent), and verify end-to-end link performance across 100G, 400G, 800G and 1.6T networks.

Services & SLA verification
Verify services, latency, QoS and SLA compliance end-to-end.

3 Network assurance

Maintain network performance through continuous visibility, proactive fiber monitoring and rapid fault isolation.

Live service assurance
Detect degradations early, prevent outages and maintain reliable network performance across active routes.

Fault localization
Quickly identify and localize fiber faults to reduce mean time to repair (MTTR) and accelerate service restoration.

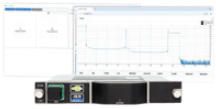
Discover our DCI testing solutions

EXFO

Accelerate deployments. Activate with proof. Ensure network quality.

Connected testing across the data center interconnect lifecycle

Portable, modular and automated solutions for fiber build, high-speed activation, service assurance and live network operations.

			Fiber construction	Network activation	Network assurance
Remote fiber test & monitoring **EXFO RFTM**		OTDR-based solution for automated remote testing of up to 1024 fibers, with continuous monitoring of dark and live fiber routes.	✓		✓
Combined OLTS & OTDR **FTB Lite 975**		Combines bidirectional OLTS and OTDR-based testing in one connection, with end-to-end automation. Supporting simplex, duplex, and multi-fiber connectors up to 24 fibers.	✓		✓
Dispersion analysis **FTBx-570**		Single-ended dispersion analyzer that measures chromatic dispersion (CD) and polarization mode dispersion (PMD) on optical fiber links.	✓		
Hollow core fiber testing **HCF OTDR test kit**		Performs HCF characterization, splice loss and reflectivity measurements, and hybrid HCF/SMF cable testing.	✓		✓
Metro/long-haul OTDR **FTB Lite 750D**		Dedicated OTDR with always-on mobile connectivity and optimized usability to carry out long-distance fiber characterization and fiber upgrades.	✓		✓
Fiber inspection scope **FIP-500**		Fully automated fiber inspection scope that uses AI-driven endface analysis to inspect simplex, duplex and multi-fiber connectors.	✓	✓	✓
Spectrum analysis **FTBx-5235**		Compact, portable optical spectrum analyzer (OSA) that measures channel power and wavelength, providing clear visibility into optical channels before service activation testing.		✓	
100G-800G testing **HyperBlazer Series**		Portable high-speed Ethernet and coherent test solution designed for intra data center and DCI test teams. Validate transceivers, cables, breakout configurations and high-speed interconnect links up to 800G. Built on the always-connected FTB Duo platform.		✓	
1G-800G and 800ZR testing **FTBx-88810 Series**		Complete lab-to-field testing with full-rate 1G-800G coverage, including 800ZR.		✓	
1.6TE and 1600ZR testing **LTS-1600 Series**		1.6T Ethernet traffic generator, and 1600ZR transceiver design-validation solution.		✓	
Centralized test and data management **EXFO Exchange**	eXchange	EXFO Exchange turns field test data into trusted, actionable outcomes at the speed and scale modern networks demand.	✓	✓	✓

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