Comprehensive test solutions around 400ZR and FlexE

EXFO

OFC 2022

OIF Interoperability Demos Booth #5101

400ZR optics

At its most basic, coherent optical technology utilizes low-cost standard optics transmitting 400G Ethernet over amplified 120-km links using DWDM and higher modulation schemes such as quadrature amplitude modulation (e.g., 8QAM and 16QAM).

Unamplified 40-km links are also feasible with QSFP-DD ZR and OSFP ZR optical form factors. This will be demonstrated at the **OIF booth (#5101)**. The interop demo includes EXFO's FTBx-88460 featuring its unique Open Transceiver System (OTS) supporting both OSFP and QSFP-DD for client and DCO applications.

Learn more about EXFO's 400G solutions

Flex Ethernet (FlexE)

FlexE describes a mechanism of transporting Ethernet rates that are not limited to standard Ethernet MAC rates. FlexE breaks the constraints of transporting traffic limited to specific interface capacities, maximizing interconnections between network elements and transport gear.

FlexE opens up several applications in transport and 5G networks. This will be demonstrated at the OIF booth (#5101). The interop demo includes EXFO's FTBx-88260 featuring its unique Open Transceiver System (OTS), which supports various FlexE clients from 5G all the way up to 100G.

Learn more about EXFO's FlexE solutions
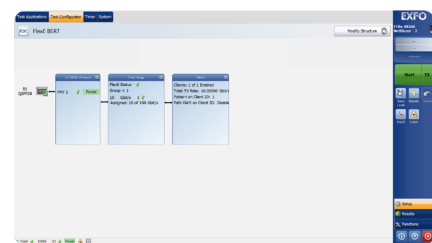
CEI 112G PAM4 LR

Common Electrical IO (CEI) performance objective for 112 Gbit/s over a long reach electrical channel is a BER ≤ 1e-4 (pre-FEC). The main challenge is keeping low power consumption with low-cost materials.

CEI-112G-LR PAM4 performance will be demonstrated at the OIF booth. The interop demo includes EXFO's BA-4000 800 Gbit/s bit analyzer, which can send and receive bits over a single 56Gbaud channel. The BA-4000 shows pre-/post-FEC BER results as well as FEC margin.

Discover EXFO's BA-4000 BER tester
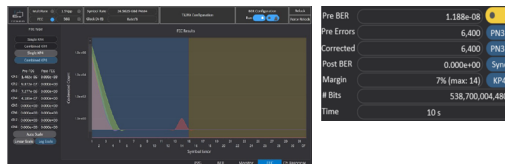
Linear 112G PAM4 LR

Common Electrical IO (CEI) 112G linear chip-to-optical interface is needed to enable low power, low cost and small form factor material for co-packaged optics.

The CEI 112G linear demonstration will show high-performance data transfer between a 56Gbaud module using two 28Gbaud electrical channels and a 56Gbaud module using one 56Gbaud electrical channel. This will demonstrate the module's capacity to preserve the data pattern without DSP from end to end.

Discover EXFO's BA-4000 BER tester
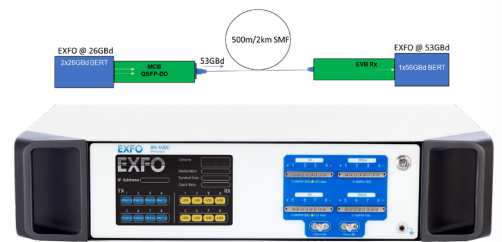
Common management interface specification (CMIS)

CMIS addresses host-to-module communication management via a two-wire interface. The common code base allows compliant modules to provide a set of management operations.

The OIF CMIS demo will show interoperability between CMIS compliant modules and EXFO's FTBx-88460, which features a unique open transceiver system. EXFO's iOptics is used to qualify the compliant module under test.

Learn more about EXFO's testing solutions

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