University of New Hampshire
InterOperability Laboratory

10 Gigabit Ethernet

Test solutions for:

- 10 Gigabit Switches and Routers
- 10 Gigabit NICs
- 10 Gigabit Transceivers
- Copper CX4 Cable
- SFP+ Direct Attach Copper
- 10GBASE-T

10 Gigabit Ethernet Tests Covering:

- **Electrical and Optical Physical Layer Measurements**
  State of the art test equipment and procedures covering Transmitter and Receiver characterization of:
  - XAUI, CX4, XFI, SFP+, and 10GBASE-T
  - SR, LR, and ER

- **Bit Level PHY analysis and Verification**
  Custom test tools for single bit analysis of:
  - Flow Control
  - MAC
  - Reconciliation Sublayer
  - Clause 48 PCS (8b/10b)
  - Clause 49 PCS (64b/66b)

- **Interoperability**
  Interoperability Testing for switches, NICs, cables, modules, and more.
  - BER estimation
  - Link configuration
  - Modules: SFP+, XFP, XENPAK, XPAK, X2,
  - Cables: SFP+ DAC, Multimode and Single Mode Fiber, CAT6A channels, CX-4, and XAUI Reference Backplanes

Key Benefits of Membership

- Year-round access to conformance and interoperability testing helps reduce time to market
- Acts as an extension of in-house test labs providing debugging and technical expertise
- Industry recognized test reports
- Independent, vendor-neutral testing using a cost-effective student staffing model
- Identification of problems before products reach the market results in: lower support costs, QA savings, and increased customer confidence
- Access to one of the industry's largest test beds for interoperability testing
- Cutting-edge testing equipment from our industry partners and UNH-IOL customized software and hardware
- Raise your visibility as an industry leader
- Consultative testing model helps quickly solve development issues and provides thorough, detailed feedback
- Industry-wide interoperability group test events
- Engineers not required to be present during testing, saving travel time and money

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