University of New Hampshire
InterOperability Laboratory

Fast Ethernet

Test solutions for:

- Network Interface Cards
- Switches for Carrier and Enterprise Class Networks
- Switches and Repeaters for SOHO, Home, and Business
- Ethernet Chipsets
- Gaming Consoles, Cable/DSL Modems
- Just about anything with a Fast Ethernet Interface

Fast Ethernet Tests Covering:

- 100BASE-TX PMD-EEE Testing for energy conservation.
- Physical Layer PMD testing based on IEEE 802.3 Clause 25, testing both the transmitter (amplitude, jitter, DCD, rise time/fall time, transmitter clock frequency deviation, etc.) and receiver (reception of frames over simulated cable lengths from 0 to 100m in 5m increments, Base Line Wander frame reception, Packet Error Rate testing) .
- MAC testing based on IEEE 802.3 Clause 4 including: frames with induced bit errors, alignment errors, length errors, preamble variations, jabber packets, collisions, deference, and more.
- InterOperability testing against our extensive list of hundreds of link partners.
- Examine and verify how your device creates a link with our Auto-Negotiation State Machine, Management System, Management Register, Next Page, and Auto MDI-X conformance test suites.
- Clause 24 PCS, Annex 31B Flow Control, and Clause 27 Repeater testing.

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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