HYDRA
MODULAR TEST SYSTEM™

10 GE LRM Compliance Testing
Fast, Easy & Accurate!

PASS/FAIL

TWDP=3.9dB

TWDP Oscilloscope
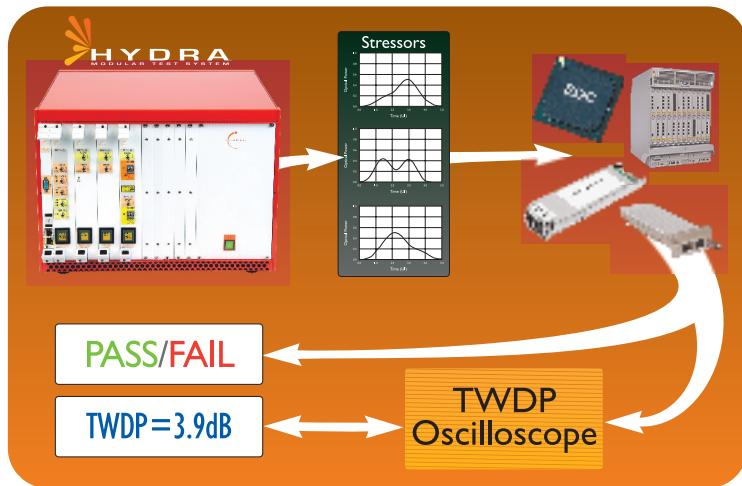
Implementing 10 Gigabit Ethernet over 220 meters of existing fiber is a very challenging task. Dispersion effects can split the signal into separate paths which travel down the fiber at different rates, resulting in a severely-distorted signal. Dispersive effects change with temperature, movement and overall quality of the installed fiber. Electronic Dispersion Compensation (EDC) integrated circuits can anticipate the dispersion and correct for it. The race is on to prove 300 meter operation, which will require rigorous testing per the 802.3aq standard and beyond.

The 802.3aq LRM standard enables 10GE interoperability over 220 meters of multimode fiber by specifying a set of tests. Our latest Hydra LRM platform was designed specifically for testing compliance to the LRM standard.

Complete LRM Testing System

Hydra is the Industry's First Complete LRM Compliant Test System:
- Fully Compliant with 802.3aq Standard
- Automated Comprehensive Receiver Test
  - Fully Compliant Stressors
  - Precursor, Symmetric, Postcursor
  - Overload Test
  - Jitter tolerance test
- Automated TWDP Measurement Made with External Scope
- Automated BER vs PWR Plots with Pass/Fail Results
- Test Multiple Channels and Modules with One System
- Modular Platform Expandible to Meet Your Future Needs

Product Description:
Hydra Modular Test System, consists of the Hydra chassis, LCD display, keyboard and mouse and the following modules:

- System Controller with Automation Software
- IEEE 802.3aq Pattern Generator
- Noise Generator
- ISI Generator
- Optical Transmitter/Receiver

Measurement Capabilities:
- Receiver Sensitivity
- Receiver Jitter Tolerance (per the 802.3aq Standard)
- Fixed Signal Degradation using Three 802.3aq Standard Stressors (Pre-Cursor, Post-Cursor, Symmetric)
- Stressed Receiver Sensitivity (10G BASE-LRM)
- Receiver Overload

System Options:
Automated Transmitter Waveform and Dispersion Penalty (TWDP) Measurement Software

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Real-World Signal Testing Made Easy