Testing Services:

We offer a wide range of extensively detailed test plans designed for Automotive Ethernet Devices. The OPEN Alliance has endorsed the UNH-IOL as the first test laboratory for conformance testing of BroadR-Reach and 100BASE-T1 Ethernet.

The adoption of Ethernet standards in automobiles will allow car manufacturers to reduce costs and increase bandwidth through standardized components and fewer cables.

Tests Covering:

- **PMA Conformance:**
  Physical Medium Attachment (PMA) is designed to determine if a product conforms to electrical specifications of the transmitter and receiver defined in the OPEN or IEEE standard.

- **PCS & PHY Control:**
  Help implementers evaluate the functionality of their products Physical Coding Sublayer (PCS) and PHY controls. Includes detailed testing of PCS Transmit and PCS Receive, state diagrams, encoding/decoding, and scrambling/descrambling.

- **Interoperability:**
  Help implementers identify problems that their devices may have in establishing link and exchanging packets with other products.

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Key Benefits

- Increased confidence in your product.
- Save money by reducing time to market.
- Use industry recognized test reports for sales and certifications.
- Access to custom test equipment and software saving you time and money.
- Ability to shape our roadmap to better serve industry needs.
- Ability to test multiple standards against globally recognized products all in one lab.
- Acts as an extension of in-house test labs providing debugging and technical expertise.

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Test Plans for:

- 1000BASE-T1 PMA
- 100BASE-T1 PMA, PCS, PHY
- BroadR-Reach PMA, PCS, PHY
- 100BASE-T1 Interop
- OPEN Alliance PHY Testing