Automotive Ethernet Compliance Tests

Compliance Verification Process for Open Alliance Test Specifications

Automotive Ethernet Compliance Test

OPEN Alliance TC8 v1 und TC8 v2:

- Automotive Ethernet Compliance Test (Layer 1)
  - PMA (Physical Medium Attachment Sublayer) Test
  - IOP (Interoperability) Test

- Switching Test TC11 Layer 2 (IEEE 802.1Q / IEEE 802.1p)
  - General Switch Requirements
  - Address Resolution (ARP)
  - VLAN
  - Quality of Service (QoS)
  - Filtering

  - Layer 3: Network Layer, IP, ICMP
  - Layer 4: Transport Layer, UDP, TCP, DHCP

- Automotive Protocols Compliance Test
  - Layer 5-7: Application Layer, SOME/IP, UDP-NM

AVB/TSN Compliance Test

- AVnu Recognized Test Facility (RTF)

Additional: OEM Add-Ons
Automotive Ethernet Compliance Tests

Example for a test cycle (at a Integration Step)

- Supplier provides DUT information
- Test House creates Test Plan
- Release of Test Plan
- Delivery of DUT Sample
- Test execution
- Test result evaluation
- Delivery of Test Report

RUETZ SYSTEM SOLUTIONS

With comprehensive expertise in data communication for automotive electronic systems Ruetz System Solutions offers Compliance Tests, Engineering Services for system specification and integration, Test Laboratories, Technology Assessment and Automotive Ethernet Trainings.


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