Spirent **OPEN Alliance SIG Conformance**

Ready-to-use Test Suite Pack based on TTworkbench

Included Test Suites

- TTsuite-OPEN-ARP
- TTsuite-OPEN-DHCP-Client
- TTsuite-OPEN-ICMPv4
- TTsuite-OPEN-IPv4
- TTsuite-OPEN-IPv4-Autoconf
- TTsuite-OPEN-UDP
- TTsuite-OPEN-TCP
- TTsuite-OPEN-SOME/IP **

*Supported Ethernet Media Types

- 100BASE-T1, 1000BASE-T1
- 10/100/1000BASE-T

The OPEN Alliance SIG Conformance Test Suite Pack consists of different protocol conformance test suites for Automotive Ethernet according to the OPEN Alliance SIG test specification running on Spirent C1 and C50 devices supporting multiple Ethernet media types*.

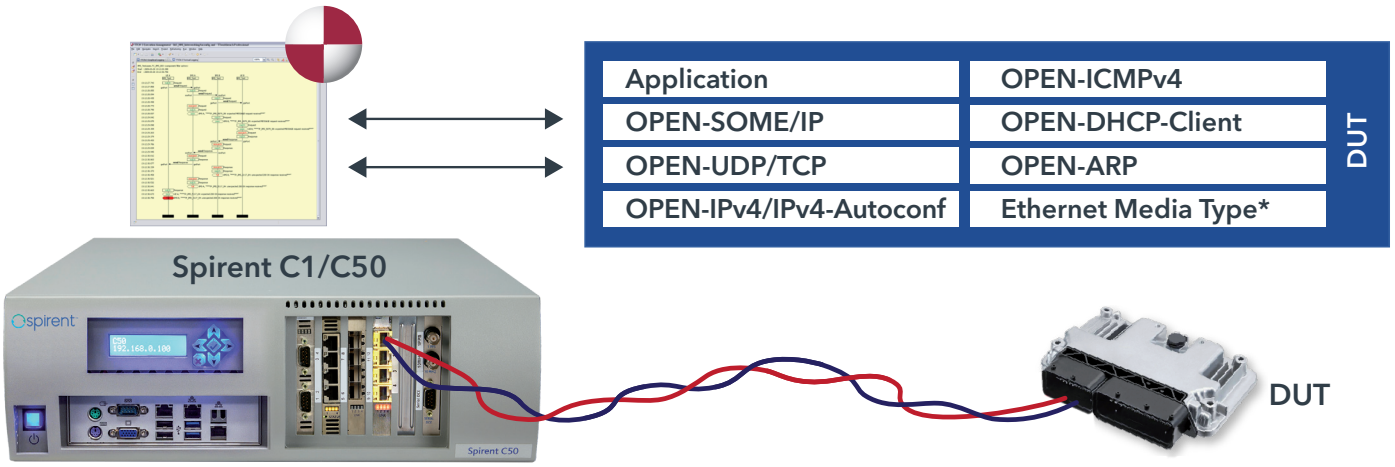
All test suites are prepared for full test automation via AUTOSAR Testability Protocol and Service Primitives (test stubs) and include frameworks for individual adaptation. Users are able to customize test scenarios, for instance to modify or exclude test stub activities, or to add negative testing, etc.

References

- OPEN Alliance Automotive Ethernet ECU Test Specification TC8 ECU and Network Test, Test Specification ECU 2.0

Requirements

- Testability Protocol and Service Primitives AUTOSAR TC Releases for full test automation
  - Implement on your own or use Spirent's Upper Tester
- Spirent C1/C50 with any of NIC-33, NIC-43 or NIC-65 cards
- ** SOMEIP TestStub Enhanced Testability Service (ETS) for



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About Spirent Communications

Spirent Communications (LSE: SPT) is a global leader with deep expertise and decades of experience in testing, assurance, analytics and security, serving developers, service providers, and enterprise networks.

We help bring clarity to increasingly complex technological and business challenges.

Spirent's customers have made a promise to their customers to deliver superior performance. Spirent assures that those promises are fulfilled.

For more information, visit: www.spirent.com

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Standards

- TTsuite-OPEN-ARP
  - RFC 826 - An Ethernet Address Resolution Protocol
- TTsuite-OPEN-DHCP-Client
  - RFC 2131 - Dynamic Host Configuration Protocol
  - Though the focus of conformance testing has been limited to the above mentioned specification document we have relied heavily upon the following document as specification for DHCP Message Options: RFC 2132 - DHCP Options and BOOTP Vendor Extensions
- TTsuite-OPEN-ICMPv4
  - RFC 792 - Internet Control Message Protocol
  - RFC 1122 - Requirements for Internet Hosts -- Communication Layers
  - RFC 1812 - Requirements for IP Version 4 Routers
- TTsuite-OPEN-IPv4
  - RFC 791 - INTERNET PROTOCOL, DARPA INTERNET PROGRAM PROTOCOL SPECIFICATION
  - RFC 1122 - Requirements for Internet Hosts - Communication Layers
- TTsuite-OPEN-IPv4-Autoconf
  - RFC 3927 - Dynamic Configuration of IPv4 Link-Local Addresses
- TTsuite-OPEN-UDP
  - RFC 768 - User Datagram Protocol
- TTsuite-OPEN-TCP
  - RFC 793 - "Transmission Control Protocol" of DARPA, Internet Program, Protocol Specification
  - RFC 1122 - Requirement for Internet Hosts - Communication Layers
  - RFC 2460 - Internet Protocol, Version 6 (IPv6) Specification

Ordering Information

Part Number	Description
TEC-SUITE-OSTSP1	OPENSIG AUTOMOTIVE ETHERNET CONFORMANCE TEST SUITE PACK
TEC-SVC-1015-TS-1Y	TTSUITE SUPPORT AND MAINTENANCE 1YR
TEC-TT-WP	TTWORKBENCH PROFESSIONAL
TEC-SVC-1015-WB-1Y	TTWORKBENCH SUPPORT AND MAINTENANCE 1YR

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