Spirent **HMC IP Middleware Compliance Test Suite Pack**

Ready-to-use Test Suite Pack based on TTworkbench

Included Test Suites

- TTsuite-HMC-ARP
- TTsuite-HMC-IP
- TTsuite-HMC-ICMP
- TTsuite-HMC-UDP
- TTsuite-HMC-TCP
- TTsuite-HMC-EthNM
- TTsuite-HMC-EthTP
- TTsuite-HMC-EthCC
- TTsuite-HMC-EthDiag
- TTsuite-HMC-DoIP

*Supported Ethernet Media Types

- 100BASE-T1, 1000BASE-T1 (BroadR-Reach)
- 10/100/1000BASE-T

The Automotive IP Conformance Test Suite Pack is an implementation of the HMC IP Middleware Compliance Test Specification. It consists of different protocol conformance test suites for Automotive Ethernet running on Spirent C1 and C50 devices supporting multiple Ethernet media types*.

This solution enables the Hyundai Motor Company supplier ecosystem to validate products that will go into use on HMC platforms.

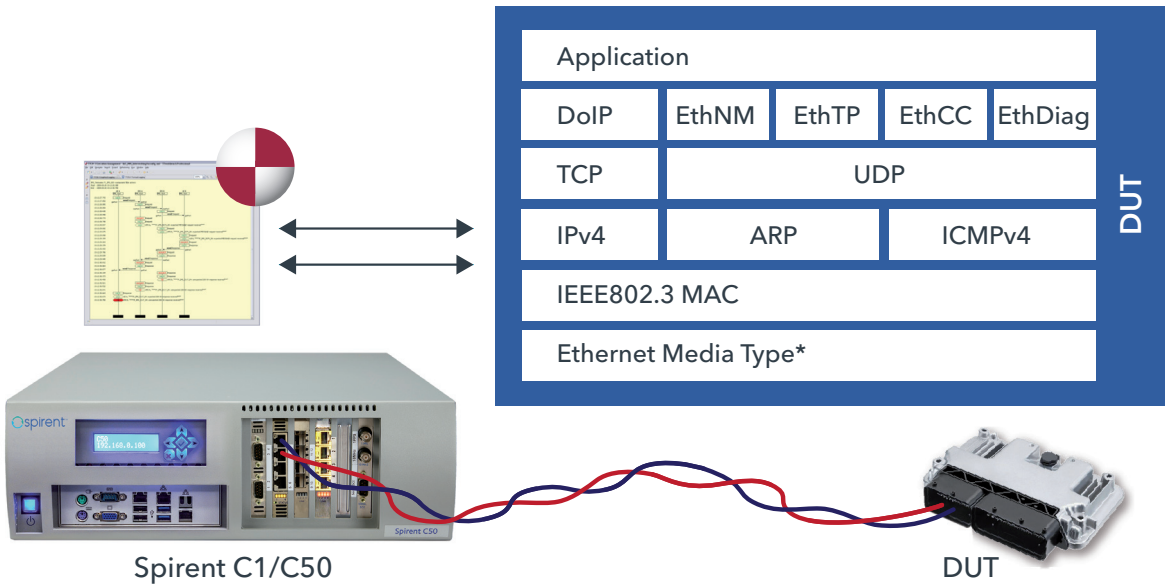
All test suites are prepared for full test automation via AUTOSAR Testability Protocol and Service Primitives (test stubs) and include frameworks for individual adaptation. Users are able to customize test scenarios, for instance to modify or exclude test stub activities, or to add negative testing,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

HMC IP Middleware Compliance Test Specifications

- OPEN Alliance Automotive Ethernet ECU Test Specification TC8 ECU and Network Test, Test Specification ECU 2.0
- HKMC Automotive Ethernet Compliance Test Specification V1.7

Requirements

- Upper Tester Module for full test automation
- Spirent C1/C50 with any of NIC-33, NIC-43 or NIC-65 cards



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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

References

- RFC 768 - User Datagram Protocol
- RFC 791 - Internet Protocol, DARPA Internet Program Protocol Specification
- RFC 792 - Internet Control Message Protocol
- RFC 793 - "Transmission Control Protocol" of DARPA, Internet Program, Protocol Specification
- RFC 826 - An Ethernet Address Resolution Protocol
- RFC 1122 - Requirements for Internet Hosts -- Communication Layers
- RFC 1812 - Requirements for IP Version 4 Routers
- RFC 2131 - Dynamic Host Configuration Protocol
- RFC 2132 - DHCP Options and BOOTP Vendor Extensions
- RFC 2460 - Internet Protocol, Version 6 (IPv6) Specification
- RFC 3927 - Dynamic Configuration of IPv4 Link-Local Addresses
- ISO 13400 Road vehicles - Diagnostic communication over Internet Protocol (DoIP)
- Testability Protocol and Service Primitives AUTOSAR TC Release 1.2.0 for full test automation
- HMC Ethernet Communication Design Specification v1.2

Ordering Information

Part Number	Description
TEC-KIT-HMC-IP-MW-COMP	HMC IP MIDDLEWARE COMPLIANCE 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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