

# Spirent HMC AVB Middleware Compliance Test Suite Pack

Ready-to-use Test Suite Pack based on TTworbench

## Included Test Suites

- TTsuite-HMC-AVB-AS
- TTsuite-HMC-AVB-1722
- TTsuite-HMC-AVB-Exceptions
- TTsuite-HMC-AVB-Statistics
- TTsuite-HMC-AVB-States

## \*Supported Ethernet Media Types

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

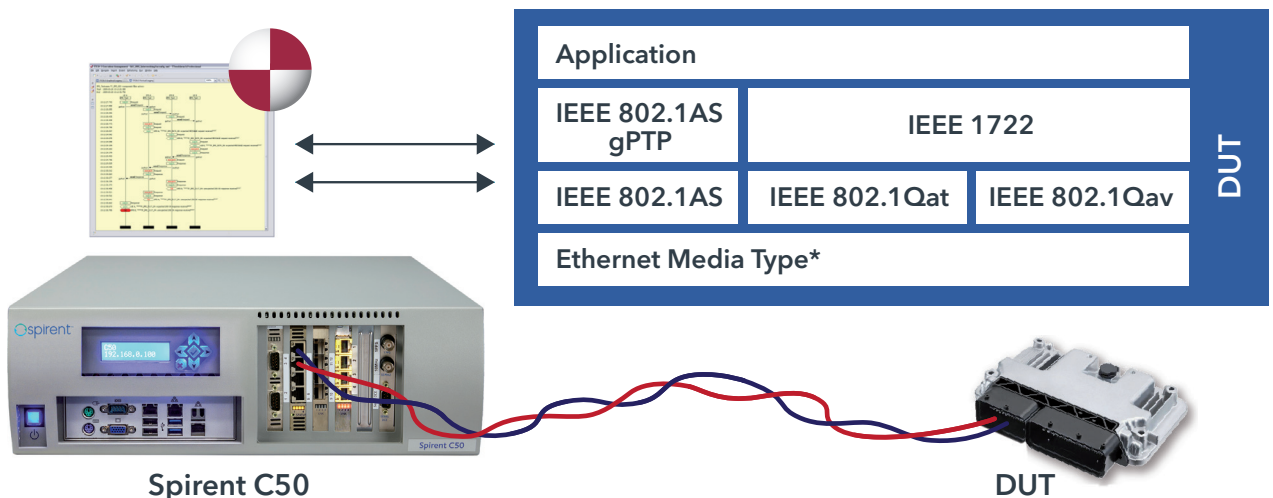
The Automotive AVB Conformance Test Suite Pack is an implementation of the HMC AVB Middleware Compliance Test Specification. It consists of different protocol conformance test suites for the Avnu Automotive AVB Profile running on Spirent C1 and C50 devices supporting multiple Ethernet media types\*.

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 AVB Middleware Compliance Test Specifications

- Automotive Generalized Precision Time Protocol (gPTP) Test Specification
- Automotive IEEE 1722 Endstation Test Specification
- Automotive Exception Handling Test Specification
- Automotive Statistics Test Specification
- Automotive States Test Specification



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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.

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## References

- IEEE 802.1AS-2011 IEEE Standard for Local and Metropolitan Area Networks - Timing and Synchronization for Time-Sensitive Applications in Bridged Local Area Networks
- IEEE 802.1Q-2014 IEEE Standard for Local and metropolitan area networks--Bridges and Bridged Networks
- IEEE 1722-2016 IEEE Standard for a Transport Protocol for Time-Sensitive Applications in Bridged Local Area Networks
- IEEE 1722.1-2013 IEEE Standard for Device Discovery, Connection Management, and Control Protocol for IEEE 1722 Based Devices
- Avnu Automotive Ethernet AVB Functional and Interoperability Specification, Revision 1.4 12 May 2015
- HMC Ethernet Communication Design Specification v1.2
- Testability Protocol and Service Primitives AUTOSAR TC Releases for full test automation

## Requirements

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

## Ordering Information

| Part Number             | Description                                   |
|-------------------------|---|
| TEC-KIT-HMC-AVB-MW-COMP | HMC AVB 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       |