

Technical Data Sheet Automotive Ethernet Tester (AET)

V 1.0



The Automotive Ethernet Tester is a highly automated test solution for OPEN ALLIANCE TC8 switching and component-level AVB/TSN testing.

The test system consists of a 19" test rack with control and analysis software.

Depending on the implementation, the test system can contain up to 15 Ethernet ports (100BASE-T1, 1000BASE-T1), each of which can simulate and evaluate specific test scenarios.

In addition, the system includes an infrastructure to fully record sent and received data.

The test system is fully controlled via a PC Control Application. Test suites are available for the respective test scopes and contain individual test cases. The test cases are script-based and parameterized before a test run via a single configuration file that contains all relevant DUT properties.

The recorded data is automatically stored in a predefined folder structure.

An additional AET Analyzer tool is available to analyze the recorded data. It accesses the file structure and generates a result protocol from the recorded data.

Features:

- ⇒ Highly automated test system
- ⇒ Up to 15 x 100 / 1000BASE-T1 ports for generating and recording traffic
- ⇒ Display and PPS output for accurate evaluation of gPTP synchronization
- ⇒ Display for port status
- ⇒ Controlled power supply for DUT
- ⇒ Script-based creation of test cases
- ⇒ Test suites for OPEN ALLIANCE TC8 Switching, Automotive gPTP, 1722, QAV
- ⇒ Test suites for QBV and other TSN features are in development

Technical Data

- ⇒ Dimensions (HxWxD) app. 145 x 464 x 305 mm
- ⇒ 15x 100 / 1000BASE-T1 ports
- ⇒ Operating voltage 8 – 16V (nominal 12V)
- ⇒ DUT voltage output (switched) 3 – 30V (10A)
- ⇒ Robust body
- ⇒ Automotive plug connectors

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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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