S-TEST/16 Lab

Efficient measurement system for digital sensors



Features

- Can hold up to 16 UTB cards to connect up to 64 sensors (4 sensors per card)
- Ethernet Interface card (ETH) for system communication, test and firmware loading and self-calibration
- Integrated power supply
- Foldable front stand feet
- LED system status indicators
- Integrated fan
- Parallel sampling with timestamp

Applications

- System Level Test platform for sensors with digital interfaces
- Sensor final test for up to 64 sensors during device development and medium batch device manufacturing
- Sensor characterization and functional validation

Range of use

- Development and testing of sensors
- Quality assurance in sensor manufacturing

Specification

The S-TEST /16 Lab is a compact system level test solution (SLT) for sensors with digital interfaces. It can be used to test and characterize digital sensors with up to 16 IO pins. With its compact form factor the system is tailored for lab and desk usage and can directly be used to support sensor testing tasks during sensor development. The device can hold up to 16 S-TEST Universal Tester Boards (UTB) that each offers interface resources for up to 64 sensors. The system main communication interface is the Chassis Communication Controller (CCB/ETH15). It offers TCP/IP connectivity, system calibration functionality and external trigger inputs and outputs.

Technical Data

Supported number of UTB[1)]	16
Max. number of DUT I/O pins	16
Max. number of connectible sensors	Up to 64[2)]
Supported digital interfaces	I^2C, mipi I3C, SPI, CAN-FD, LIN, PSI5, SENT, JTAG, TDM, ZACWire
Power supply ranges	100 V…240 V, 50/60 Hz
Operating temperature range	20 °C…35 °C
Storage temperature range	-25 °C…+55 °C
Relative humidity	40 %…80 %
Dimensions (H x W x L)	134 mm x 485 mm x 563 mm (with front handles)
Weight	9.6 kg

All specification are at room temperature unless otherwise specified

1) SPEKTRA S-TEST Universal Tester Board

2) Maximum number of freely assignable IO pins: 16

Accessories (optional)

- ✓ S-TEST Evaluation Board
- ✓ S-TEST Engineering Board
- ✓ S-TEST(BSI) extension cable (62-pin)