

S-TEST/2

Compact test system for digital sensors



Features

- ✓ Can hold 2 UTB cards to connect up to 8 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 small batch sensor manufacturing
- ✓ Sensor characterization and functional validation

Range of use

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



Specification

The S-TEST /2 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 2 S-TEST Universal Tester Boards (UTB) that each offers interface resources for up to 4 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⁾	2
Max. number of DUT I/O pins	16
Max. number of connectible sensors	Up to 8 ²⁾
Supported digital interfaces	I ² C, 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)	193 mm x 344 mm x 104 mm
Weight	3.9 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

System Components

- ✓ Universal Tester Board - UTB (BSI)
- ✓ Chassis Communication Board - ETH15 (CCB)

Accessories (optional)

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