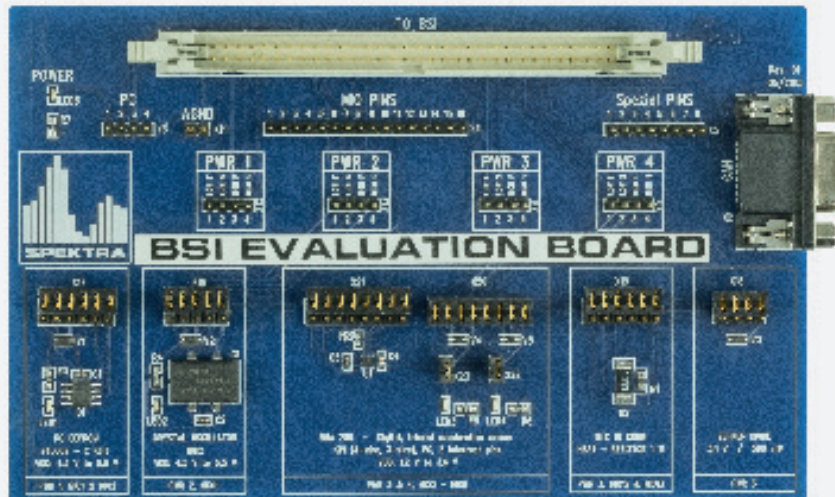


S-TEST Evaluation Board

SPEKTRA S-TEST(BSI) hardware for trainings



Applications

- ✓ Hardware for SPEKTRA S-TEST system training



Selected Data

- ✓ Compact printed circuit board
- ✓ 5 training sections
- ✓ Separate connection for CAN bus-signals



Features

- ✓ Board can be connected to a UTB(BSI) card via BSI cable
- ✓ Activate different hardware components by plugging in jumper strips and use them for different training tasks
- ✓ Male connectors for measuring all signals of a UTB(BSI) board
- ✓ LEDs for easy control of the power supply



Specification

The Evaluation Board is made as training hardware for SPEKTRA S-TEST systems. The board can be connected to a UTB(BSI) card via BSI cable. Different hardware components on the board can be activated by plugging in jumper strips and thus be used for different training tasks. The board also offers pin headers for all connections of the UTB(BSI) card and can also be used to measure different signals of a UTB(BSI) card. Some LEDs are installed to support the training tasks.

The Evaluation Board is labelled in detail to make it easier to work with the individual parts. Besides the pin headers for the different signals of the UTB(BSI) card, the board consists of 5 training sections, which are located in the lower part of the board. Each section is visually separated by a frame. The technical parameters and the signal routing or required UTB resources are printed at the bottom of this frame.

Available Sections

- ✓ Thermistor
 - 100Ω, 1W resistance at source 3
 - 10kΩ NTC to MIO12 and MIO13
- ✓ Zener diode
 - Zener diode at source 3
 - Breakdown voltage 5.1 V
- ✓ Quarz oscillator
 - Supply of the oscillator via source 2
 - Frequency measurement via MIO11
 - Vibration frequency: 1 MHz
 - Power supply 4.5 ... 5.5 V
 - LED to indicate the power supply
- ✓ I²C-EEPROM
 - Supply of the EEPROM via source 1
 - I²C SCL to MIO01
 - I²C SDA to MIO02
 - Power supply 2.5 ... 5.5 V
 - LED to indicate the power supply
- ✓ BMA280, triaxial accelerometer with I²C and SPI interface
 - Supply VDD to source 3
 - Supply VDDIO to source 4
 - SDO to MIO06
 - SDx to MIO05
 - SCx to MIO07
 - INT1 to MIO04
 - INT2 to MIO03
 - PS to MIO08
 - CSB to MIO09
 - Power supply 1.6 ... 3.6 V
 - LED to indicate the power supply