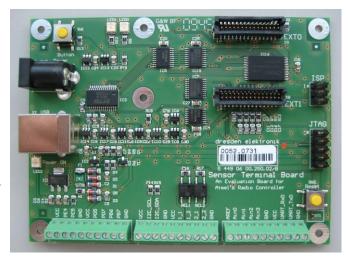


Sensor Terminal Board

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Datasheet

- The Sensor Terminal Board is a development platform for Radio Controller Boards (RCB).
- Screw contacts and standard connectors give access to the pins of the attached RCB module.
- For PC-communication an USB interface is available.
- The Sensor Terminal Board contains an on-board temperature sensor, freely programmable LEDs, one button and a 32 Kbyte SRAM memory.



- The components on the board can be addressed without the use of the GPIOs at the RCB.
- The Sensor Terminal Board can be powered over USB, by an external power supply or by the batteries of the RCB.
- A complete kit is also available which contains a Sensor Terminal Board, a power supply, RCB modules, cables and extensive software and documentation on CD.

Te	chn	ical	Data

Board components

Dimensions 100 x 75 x 30 mm incl. spacer, RCB and battery

holder

Operating temperature 5°C to +55°C without condensation

Storage temperature -10°C to +70°C Interfaces 1x ISP (6 pin)

1x JTAG AVR (10 pin)

1x USB

3 x 10 Pin screw coupler for:

Serial interface (UART / 3.3 V digital)

- I2C bus

- External analog reference voltage

Analog inputs

- Digital inputs/outputs

Galvanically separated outputs
 1x on-board temperature sensor

1x button (freely programmable)

2x LEDs (freely programmable)

1x reset button 1x 32kB SRAM

Radio modules All Radio Controller Boards can be attached.

Technical Data



Connections

Pin configuration

USB: Standard USB electric coupler receptacle, Type B

External power supply:

-(#)

1: MISO 2: Vcc 3: SCK 4: MOSI

5: Reset 6: GND

 JTAG:
 1: TCK
 2: GND

 3: TDO
 4: Vcc

 5: TMS
 6: Reset

 7: Vcc
 8: Frei

 9: TDI
 10: GND

9: TDI 10: GND **Screw terminal X3:** 1: Vcc 2: GPIO (PortE 4)

3: GPIO (PortE 5) 4: GND

5: Vcc 6: GPIO (PortD 5) 7: GPIO (PortD 7) 8: GPIO (PortB 6)

9: GPIO (PortB 7) 10: GND

Screw terminal X4: 1: Vcc 2: SCL (I2C)

3: SDA (I2C) 4: GNC

5: Vcc 6: Rel1 A (potential free contact)
7: Rel1 B 8: Rel1 A (potential free contact)

9: Rel2 B 10: GND

Screw terminal X5: 1: AREF 2: AIN0 3: AIN1 4: AIN2

3: AIN1 4: AIN2 5: AIN3 6: AGND

7: Vcc 8: RxD (USART1) 9: TxD (USART1) 10: GND

Application with a RCB module



Scope of delivery

Sensor Terminal Board

Accessories

Additional Radio Controller Boards (RCBs) External Power Supply 5VDC/1.2A

USB cable

Order online: http://www.dresden-elektronik.de



Order No. BN-026533

see homepage BN-023431 BN-022466 Order Information

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