ACD52840 IoT Development Board
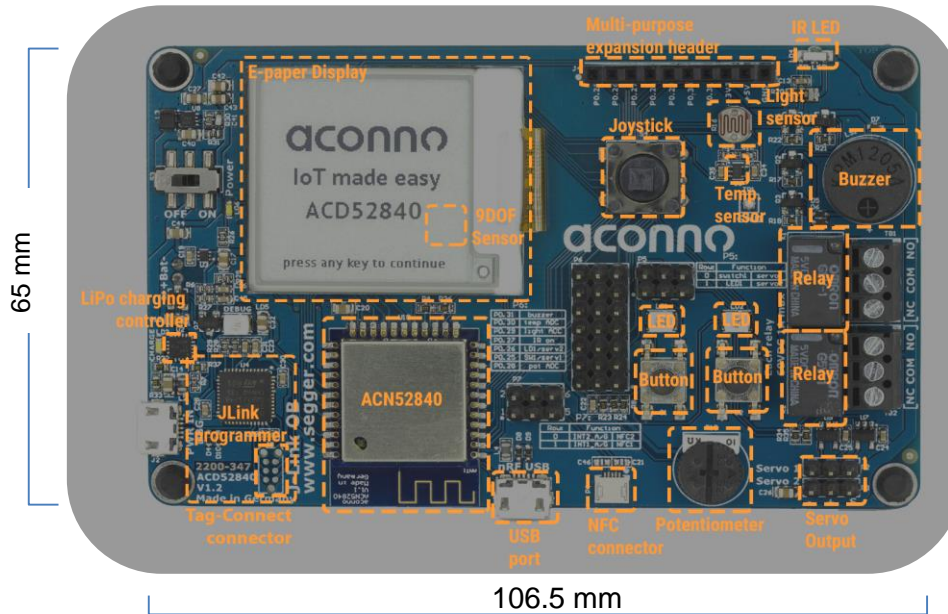
BT5 IoT development kit

MA:DE IN GERMANY

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ACD52840 IoT Development Board

65 mm

106.5 mm

The ACD52840 IoT Development Board is aconno's latest BLE development board that measures light, temperature, sound, motion and vibration. It features a high resolution ePaper display, joystick, potentiometer, IR emitter, relays, servo connectors, gyroscope, accelerometer, magnetometer, buzzer, buttons, multicolor LEDs, NFC and USB port. The board's core is aconno's ACN52840 Bluetooth 5 module, based on Nordic's nRF52840 SoC with ARM® Cortex®-M4F CPU with ARM TrustZone® CryptoCell, which ensures low power, long battery life and enough processing power for demanding tasks. It is suitable for Bluetooth 5.0, ANT+, ZigBee, Thread and 2.4 GHz proprietary applications with simple Drag & Drop programming by Segger J-Link on board.

Advantages:
- Full BLE 5.0 Long Range support
- Supports the latest sensor technologies:
  - ST® LSM9DS1 9-Degrees of Freedom sensor
  - Vishay® VSMB10940 infrared emitting diode
  - Microchip® MCP9700 temperature sensor
  - VT900 Light Sensor
- Input/output components:
  - Good Display® GDEP015OC1 ePaper display
  - USB and NFC port
  - Omron® G5V-1 relay
  - Joystick
  - Potentiometer
  - Switch / buttons
  - Buzzer
  - LEDs
  - Servo control
  - USB 2.0 full speed

- Certified for: Bluetooth 5, CE, CE RED, FCC; IC. RoHS compliant

Device Specifications:
- Connectivity: Bluetooth 5 / smart based on ACN52840 BT module, integrated Segger J-Link OB programming and debugging device, USB port
- Weight: 46.1g
- Power supply: LiPo battery, microUSB
- User interface: ePaper display, joystick and Android app
- Resource: open source repository at GitHub

Use cases:
- Internet of Things – sensors and hubs
- Rapid prototyping
- Beacon development
- Remote controls
- Smart home sensors
- NFC <-> BT tags

Let's do I(o)T together!

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