



## TekPartner Thread, ZigBee and/or BLE Things

This IoT Things uses the "IEEE 802.15.4 Radio Standard" and/or the "Bluetooth Low Energy" technology to communicate between the local sub-system (WPAN) and the sub-systems Boarder Router/Edge Computer and further on to the Internet based Cloud system/server.

The Things connect to the Internet through the Boarder Router (see relevant brochure).

The default application is based on OpenThread in the WPAN and uses the MQTT protocol to communicate to the Cloud, but other WPAN and Cloud protocols may easily be used

### Things Network (WPAN):

- Radio Standard
  - Thread and/or
  - ZigBee and/or
  - Bluetooth Low Energy
- Board Antenna or external Antenna via SMA connector

### I/O

- 3 x Input (each: Analog, Counter and Level)
- 2 x Output (1x TTL, 1x Bi-stable Relay)
- 2 x Keys (User & Reset)
- 3 x Status LEDs

### MCU:

- nRF52840 SoC (ARM Cortex M4)

### Memory:

- xx KB RAM
- xx KB FLASH
- xx KB FRAM (i2c)
- xx MB Data FLASH (spi)

### Power:

- Battery compartment
- 5 VDC Connector



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