

UCMote mini



- 2,4 GHz IEEE 802.15.4 wireless device
- Designed for research and education
- 2Mb/s radio communication
- On board USB bridge, battery charger, JTAG interface
- Optional sensors: light, 3D accelerometer, humidity-temperature, barometric pressure
- 4 user programmable LEDs
- 400 m communication range in LOS
- compact design

Details:

| | |
|--------------------|---|
| MCU: | Atmel ATmega128RFA1, 8-bit, 2,4GHz |
| Antenna: | Chip antenna |
| Flash: | 16Mbit, SPI |
| Sensors: | |
| Ambient light | 16bit, I ² C |
| *Humidity, Temp | 12bit/14bit, I ² C |
| *3D accelerometer | 14bit, SPI |
| *Barometric sensor | 24bit, I ² C |
| JTAG: | for debugging and communication |
| micro USB: | for external power and communication |
| User interface: | 4 LEDs (+2 LEDs for external power presence and charging indicator) |
| Battery: | Both CR2450 non-rechargeable and LIR2450 rechargeable coin battery |
| Battery charger: | charging LIR2450 battery in case of present external power |
| Software: | TinyOS 2.x and NesC compatibility |
| Enclosure: | Hammond 1551F, outside dimensions: 50mm X 35mm X 15mm |

