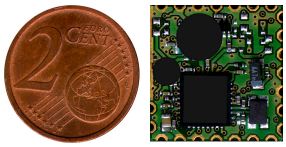
PRODUCT SPECIFICATION

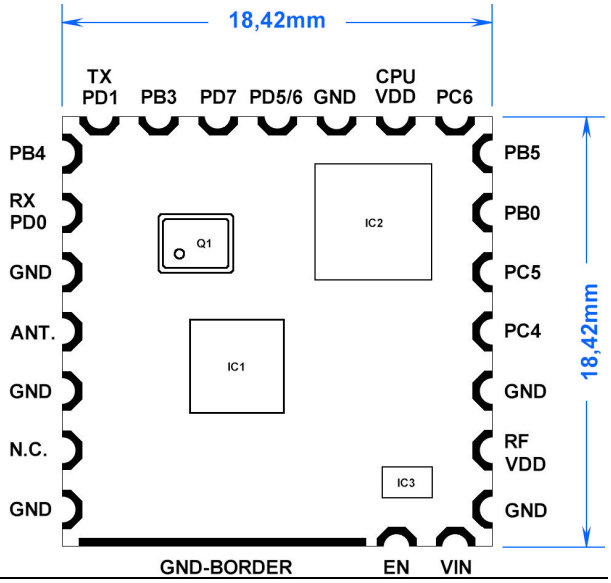


300 – 348, 400-464, 800-928 MHz Transceiver-mController-Module ISM / SRD bands

TµM1100-AVR

Applications

- Alarm and Security Systems
- Automotive
- Home and Building Automation
- Automatic Meter Reading (AMR)
- Wireless Handsfree
- Remote Control
- Surveillance
- Wireless Communications
- Low Power Telemetry
- Toys
- REK – Remote Keyless Entry
- Industrial Monitoring and Control
- Wireless Sensor Networks
- Consumer Electronics
- Ultra Low-Power Wireless Applications



FEATURES

RF : Chipcon CC1100

- GFSK, FSK, OOK/ASK, MSK multi-channel transceiver
- Frequency range 300 – 348, 400 – 464 MHz, 800 – 928 MHz
- Data rate 1,2 to 500 kbps
- Data format NRZ, Manchester or UART
- Digital RSSI and carrier sense indicator
- Automatic RX polling using Wake-on-Radio: 1.8µA
- Separate 64-byte RX and TX data FIFOs, Burst mode data transmission
- Ideal for multi-channel operation
- Standby- and power down-mode
- Programmable receiver channel filter bandwith from 58 to 812 KHz
- High RX sensitivity up to –110dBm at 1.2 kbps
- Programmable output power up to +10 bBm
- 50Ω Antenna input/output

CPU on board : Atmel Atmega48V/88V/168V

- Advanced RISC Architecture
- 512 Byte / 1K Byte internal RAM
- 256 / 512 Byte internal EEPROM
- 4K / 8K / 16K Byte FLASH, In-system programmable
- 11 Port USER I/O
- USART, Byte-oriented 2-wire Serial Interface SPI Serial Port
- On-Chip Oscillator up to 10MHz
- Power-on Reset and Brown-out Detection
- Watchdog with Separate On-chip Oscillator
- On-chip Analog Comparator
- Interrupt and Wake-up on Pin Change
- Two 8-Bit, one 16-bit Timer/Counters, RTC w. Separate OSC
- One PWM output, two USER 10-bit ADC, one ADC int. for monitoring VIN
- On-chip debug; in-system debug

On board:

- Low Drop Regulator VCC up to 12V