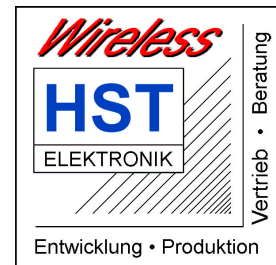
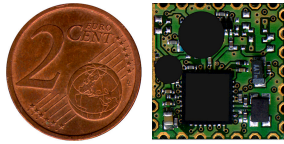


## PRODUCT SPECIFICATION

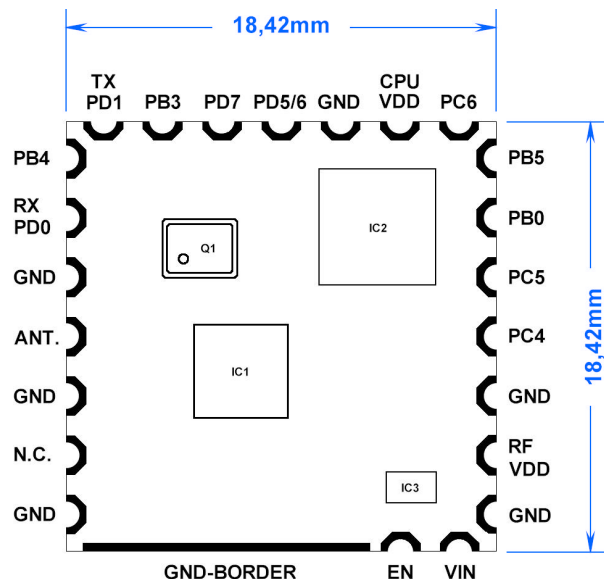


## 2400 – 2483.5 MHz Transceiver-mController-Module ISM / SRD bands

# TμM2500-A VR

### Applications

- Wireless Motioncontrol
- Automotive
- Wireless Medical devices
- Home and Building automation
- Wireless Keyboard and Mouse
- Wireless Handsfree
- Remote Control
- Surveillance
- Wireless Device Communications
- Consumer Electronics
- Wireless Game Controllers
- REK – Remote Keyless Entry
- Industrial Monitoring and Control
- Wireless Sensor Networks
- Wireless Audio
- Ultra Low-Power Wireless Applications



### FEATURES

#### RF : Chipcon CC2500

- GFSK, FSK, MSK, OOK multi-channel transceiver
- Frequency range 2400-2483.5 MHz
- Data rate 1,2 to 500 kbps
- Data format NRZ, Manchester or UART
- Digital RSSI and carrier sense indicator
- Automatic low-power RX polling using Wake-on-Radio
- 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 bandwidth from 58 to 812 KHz
- High RX sensitivity up to -101dBm at 10 kbps
- Programmable output power up to +0 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