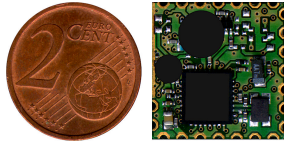


## PRODUCT SPECIFICATION

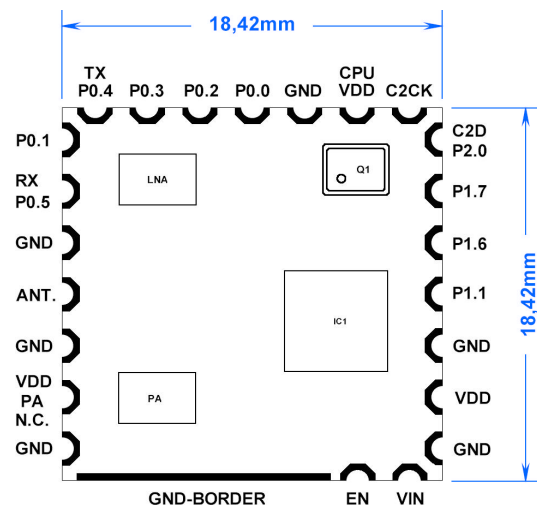


## 402 - 470 and 804-940 MHz Transceiver-mController-Module ISM / SRD band

# TμM1020-F330

### 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 CC1020

- GFSK, FSK, OOK/ASK multi-channel transceiver
- Frequency range 402 – 470 MHz  
804 – 940 MHz
- Data rate 0,45 to 153,6 kBaud
- Data format NRZ, Manchester or UART
- Digital RSSI and carrier sense indicator
- Integrated bit synchronizer
- Image rejection mixer
- Suitable for frequency hopping systems
- Standby- and power down-mode
- Programmable receiver channel filter bandwidth from 9.6 to 307.2 KHz
- High RX sensitivity up to -121dBm for a 12.5 KHz channel
- Programmable output power
- 50Ω Antenna input/output

#### Option On board :

- PA up to 10dBm
- LNA

#### CPU on board : Silicon Labs C8051F330

- High Speed low power 8051μC Core
- Up to 25 MIPS throughput with 25MHz Clock
- 768 Byte internal RAM
- 8K Byte FLASH, In-system programmable in 512-byte Sectors
- 9 Port USER I/O, All 5V tolerant with high sink current
- Enhanced UART, SMBus, Enhanced SPI Serial Port
- Two internal Oscillators: 24,5MHz ±2% accuracy and 80/40/20/10 KHz low frequency, low power
- Can switch between clock sources on-the-fly
- Built in temperature sensor
- Comparator; programmable hysteresis and response time  
Configurable as interrupt or reset source
- 10-Bit current output DAC
- 10-Bit ADC, up to 200 ksp/s; single-ended or differential inputs
- On-chip debug; in-system debug (no emulator required)

#### On board:

- Low Drop Regulator VCC up to 12V