PRODUCT SPECIFICATION

Wireless
HST
ELEKTRONIK
Entwicklung • Produktion
Vertrieb • Beratung
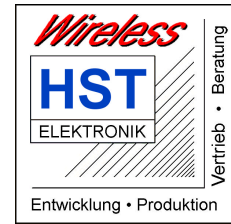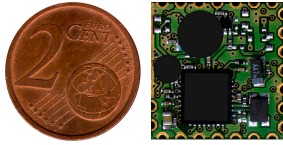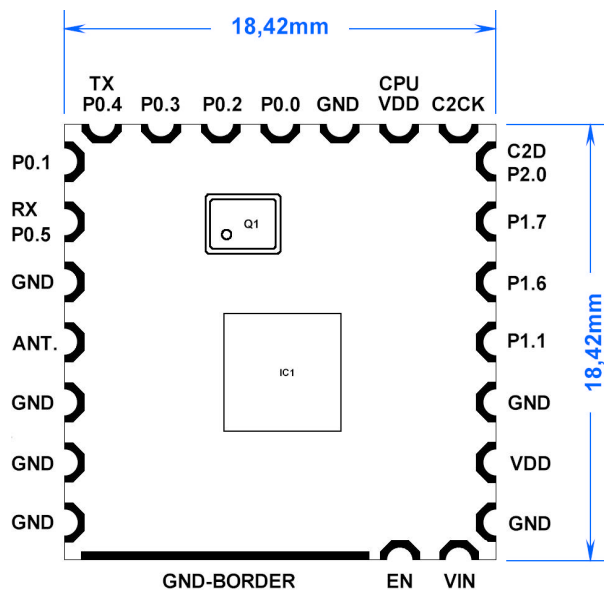
2.4 – 2.5 GHz
Transceiver-µController-Module

TµM2401-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

18,42mm × 18,42mm

Pin labels: TX P0.4, P0.3, P0.2, P0.0, GND, CPU VDD, C2CK, C2D P2.0, P1.7, P1.6, P1.1, GND, VDD, GND, P0.1, RX P0.5, GND, ANT., GND, GND, GND, GND-BORDER, EN, VIN, Q1, IC1

FEATURES

RF : Nordic NRF2401	CPU on board : Silicon Labs C8051F330
- GFSK multi-channel transceiver 2.4 – 2.524 GHz ISM band 125 channels - Support frequency hopping - Data slicer / clock recovery of data - Address and CRC computation - DuoCeiver for simultaneus dual Receiver topology - ShockBurst mode for ultra-low Power operation - Low supply current TX, RX - Data rate 0 to 1Mbps - Output Power 1mW 50Ω Antenna input/output - Differential to single ended matching network (BALUN) included	- 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 - Switching 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 kbps; single-ended or differential inputs - On-chip debug; in-system debug (no emulator required)