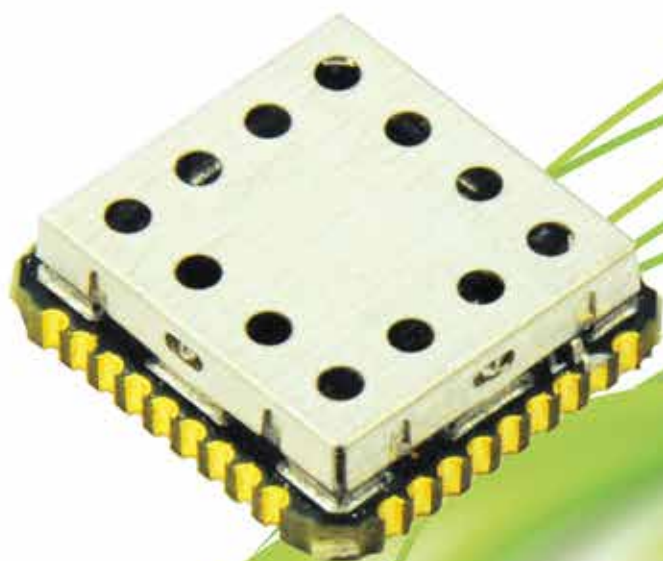


ERF1000

easyRF

Low power wireless module with ARM Cortex-M0+



Small, Smart, Simple... easyRF!

Features

- ARM Cortex-M0+ CPU – 256KB Flash – 32KB SRAM
- Integrated ultra low power transceiver for 2.4GHz ISM band
- 250kbps Data rate
- 99dBm RX sensitivity
- +4dBm TX output power
- Antenna diversity and TX/RX control
- SPI, I²C, GPIO
- USB port
- Supply voltage 1.8–3.6V
- Low power consumption – 2.5μA idle mode
- Size: 16mm x 15mm x 4.2mm

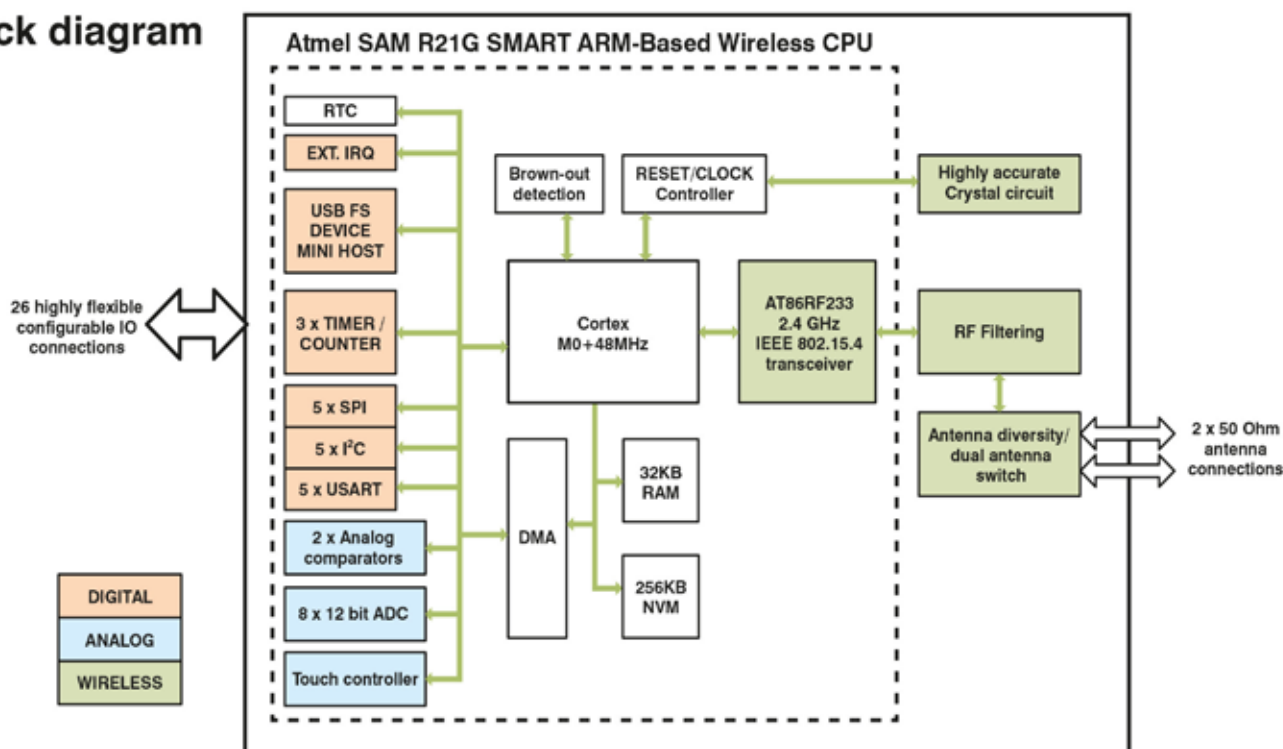


Discover more on: www.easyRF.eu

Product	ERF1000
CPU	- ARM Cortex-M0+ CPU running at up to 48MHz
Memory	- 256KB in-system self-programmable flash - 32KB SRAM
Peripherals	- Three 16-bit timer/counters - One full-speed (12Mbps) USB 2.0 interface - USART with full-duplex and single-wire half-duplex configuration - I ² C interface - SPI interface - 12-bit, 350ksps analog-to-digital converter - Two analog comparators
Wireless	- Low power transceiver for 2.4GHz ISM band - 250kbps Data rate - -99dBm RX sensitivity - Up to +4dBm TX output power - Antenna diversity and TX/RX control - Hardware security (AES, true random generator)
Power	- 1.8~3.6V Supply voltage - 2.50µA - Idle mode - 4.06µA - Standby mode - 11.8mA - RF receiving mode
Size	- 16mm x 15mm x 4.2mm



Block diagram



easyRF delivers easy-to-use products

IoT - Internet of Things modules, RF-tranceivers, easyTracer modules, Antennas, RF-cable assemblies, RF-connectors