

Spoločnosť Rabbit predstavila Rabbit® 6000 - embedded wireless komunikačný a riadiaci systém (SoC), ideálny pre aplikácie priemyselnej automatizácie.

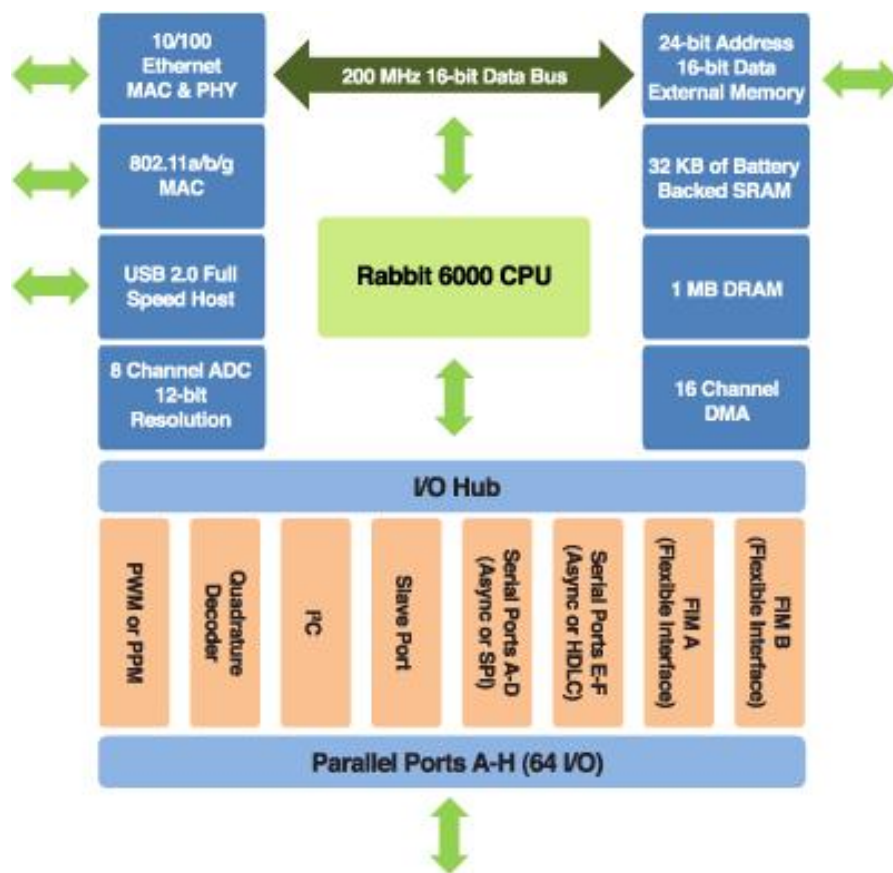
Rabbit® 6000 je kombináciou bezdrôtovej komunikácie a sady funkcií pre riadenie v priemysle, integrované na jednom čipe.

Konkrétne obsahuje ethernet 10/100 Base-T a wifi 802.11a/b/g (zabezpečený) s podporou WPA2 pre vyššiu úroveň ochrany. Sada funkcií určená pre priemyselné riadenie, obsahuje Pulse Width Modulation (PWM), Pulse Position Modulation (PPM) a vstup pre *Quadrature decoder* pre efektívne riadenie motorov, 12-bitový A/D prevodník. Ďalej má aj rozhranie USB 2.0 (full-speed) - host a dva *Flexible Interface* moduly (FIMs), ktoré umožňujú použitie ďalších protokolov ako CANbus, Secure Digital (SD) alebo Secure Digital Input Output (SDIO).

Vlastnosti

- Memory: 1 MB internal DRAM and 32K battery backable SRAM
- Package: 292-ball BGA (17 mm x 17 mm x 1.3 mm)
- Operating Voltage: 1.2V DC core, 3.3V DC I/O ring
- Operating Current: 372 μ A/MHz @ 1.2V / 3.3V (Wi-Fi and Ethernet Disabled)
- Operating Temperature: -40° C to +85° C
- Maximum Clock Speed: 200 MHz
- Digital I/O: 64+ (arranged in eight 8-bit ports)
- Network Interfaces: 10/100Base-T, 802.11a/b/g Wi-Fi
- Serial Ports: 6 CMOS-compatible (Baud Rate: Clock speed / 8 max. asynchronous; 4 as SPI)
- I2C: 1
- Address Bus: 24-bit
- Data Bus: 16-bit
- Timers: Ten 8-bit, one 10-bit with 2 match registers, and one 16-bit with 8 match registers
- Real-Time Clock: Yes, battery-backable
- RTC Oscillator Circuitry: External
- Watchdog Timer/Supervisor: Yes
- Clock Modes: 1x, 2x, /2, /3, /4, /6, /8
- Power-Down Modes: Sleepy (32 kHz), Ultra Sleepy (16, 8, 2 kHz)
- External I/O: 8 or 16-bit data, 8 address lines
- A/D Converters: 12-bit, eight multiplexed channels, up to 1 megasamples/s 10-bit, 2 synchronous channels, up to 40 megasamples/s 10-bit, single channel, up to 1 megasample/s (Wi-Fi disabled)
- D/A Converters: 10-bit, 2 synchronous channels, up to 80 megasamples/s (Wi-Fi Disabled)

Blokové zapojenie



Odkazy

[Rabbit 600 homepage](#)

[Dokumentácia, SW, schéma sériového programovacieho kábla](#)

Distribúcia

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