

Spoločnosť Analog Devices Inc. predstavila ďalšieho člena MCU rodiny - **ADuC 7122**.

Jedná sa o precízny analógový mikrokontrolér, využívajúci jadro ARM7TDMI®.

Analógová časť pracuje pri 1MSPS s 12 bitmi a to pri 13 kanálovom ADC (2 kanály disponujú programovateľným zosilnovačom) a 12 kanálovom DAC.

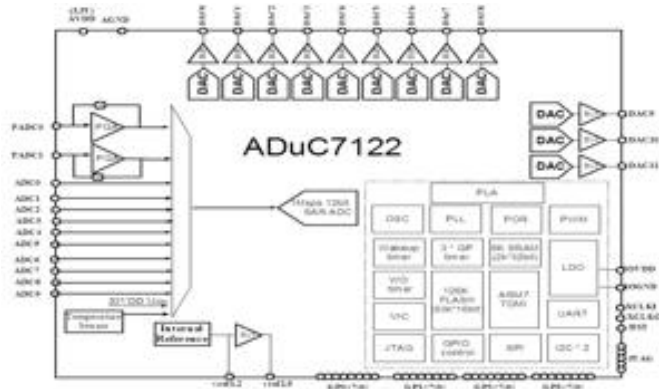
Prehľad

Analog I/O

- 13 external channel, 12-bit, 1 MSPS ADC
 - 2 channels with programmable gain
 - PGA (1 to 5) input range
 - IOVDD power monitor channel
 - On-chip temperature monitor
 - 11 general-purpose inputs
- Fully differential and single-ended modes
- 0 V to VREF analog input range
- 12 × 12-bit voltage output DACs
- On-chip voltage reference: 1.2 V/2.5 V
 - Buffered output reference sources for use with external circuits
- ARM7TDMI core, 16-bit/32-bit RISC architecture
- JTAG port supports code download and debug Clocking options
- Trimmed on-chip oscillator ($\pm 3\%$)
- External watch crystal
- External clock source up to 41.78 MHz
- 41.78 MHz PLL with programmable divider Memory
- 126 kB Flash/EE memory, 8 kB SRAM
- In-circuit download, JTAG-based debug
- Software-triggered in-circuit reprogrammability
- On-chip peripherals
 - UART, 2 × I2C and SPI serial I/O
 - 32-pin GPIO port
 - 4 × general-purpose timers
 - Wake-up and watchdog timers (WDT)
 - Power supply monitor
- Vectored interrupt controller for FIQ and IRQ
 - 8 Priority levels for each interrupt type
 - Interrupt on edge or level external pin inputs
- Power
 - Specified for 3 V operation
 - Active mode: 11 mA at 5 MHz, 40 mA at 41.78 MHz
- Packages and temperature range
 - 7 mm × 7mm 108-ball BGA

- Fully specified for -10°C to $+95^{\circ}\text{C}$ operation
- Tools
 - Low cost QuickStart™ development system
 - Full third-party support

Blokové zapojenie



Cena

ADuC7122 by mal byť už dostupný v cene od 8,90 USD (@1k ks)

Odkazy

[ADuC7122 datasheet](#)

Distribúcia

[vid'. Adresár](#)