

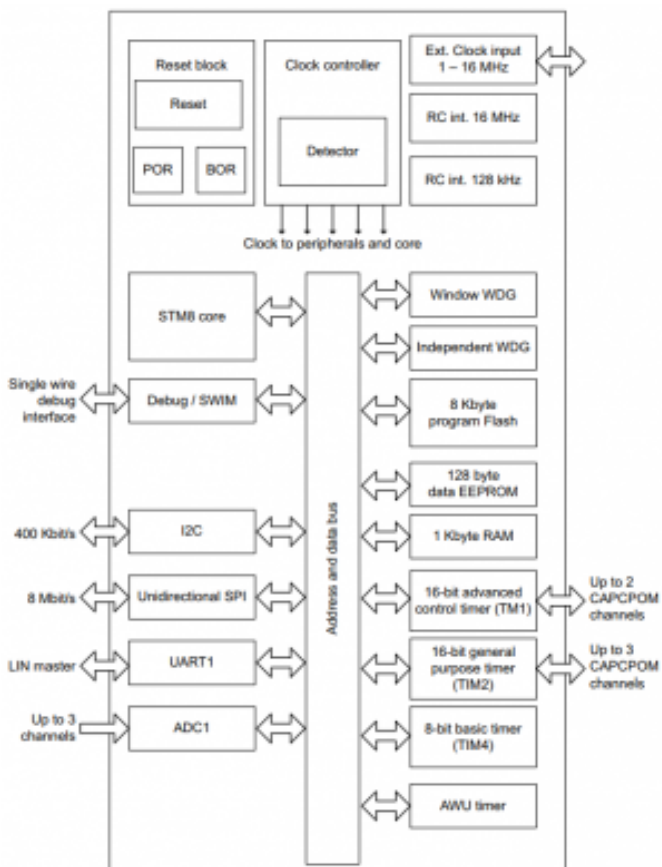
STMicroelectronics dalo do obehu 8-pinový (SOIC8), 8-bitový MCU 16MHz mikrokontrolér za 20 centov (USD @10k ks).

## Vlastnosti

- Core
  - 16 MHz advanced STM8 core with Harvard architecture and 3-stage pipeline
  - Extended instruction set
- Memories
  - Program memory: 8 Kbytes Flash memory; data retention 20 years at 55 °C after 100 cycles
  - RAM: 1 Kbyte
  - Data memory: 128-byte true data EEPROM; endurance up to 100 k write/erase cycles
- Clock, reset and supply management
  - 2.95 V to 5.5 V operating voltage
  - Flexible clock control, 3 master clock sources
    - External clock input
    - Internal, user-trimmable 16 MHz RC
    - Internal low-power 128 kHz RC
  - Clock security system with clock monitor
  - Power management
    - Low-power modes (wait, active-halt, halt)
    - Switch-off peripheral clocks individually
    - Permanently active, low-consumption power-on and power-down reset
- Interrupt management
  - Nested interrupt controller with 32 interrupts
  - Up to 5 external interrupts
- Timers
  - Advanced control timer: 16-bit, 2 CAPCOM channels, 2 outputs, dead-time insertion and flexible synchronization
  - 16-bit general purpose timer, with 3 CAPCOM channels (IC, OC or PWM)
  - 8-bit basic timer with 8-bit prescaler
  - Auto wakeup timer
  - Window and independent watchdog timers
- Communications interfaces
  - UART, SmartCard, IrDA, LIN master mode

- SPI unidirectional interface up to 8 Mbit/s (master simplex mode, slave receiver only)
- I2C interface up to 400 Kbit/s
- Analog to digital converter (ADC)
  - 10-bit ADC,  $\pm 1$  LSB ADC with up to 3 multiplexed channels, scan mode and analog watchdog
- I/Os
  - Up to 5 I/Os including 4 high-sink outputs
  - Highly robust I/O design, immune against current injection
- Development support
  - Embedded single-wire interface module (SWIM) or fast on-chip programming and non-intrusive debugging

### Blokové zapojenie



### Cena

Podľa ST, je cena za 10k ks len 0.20 USD

### Odkazy

[Homepage](#)

[Datasheet](#)

### Distribúcia

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