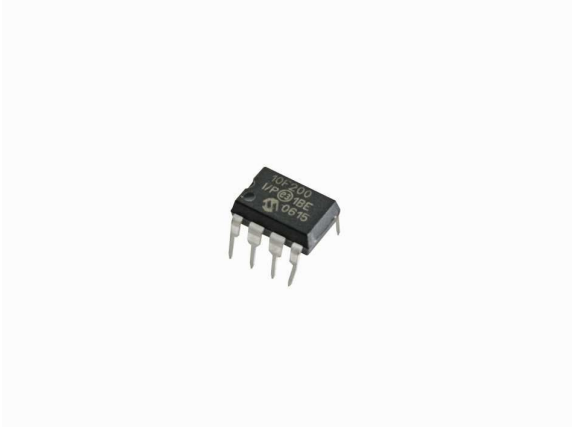
8-bit Microchip microcontroller PIC10F200

Bestelcode: PIC10F200-I/PG



The PIC10F200 is a low-cost, high-performance, 8-bit, fullystatic, Flash-based CMOS microcontroller by Microchip. It employs a RISC architecture with only 33 single-word/ single-cycle instructions. All instructions are single cycle (1 µs) except for program branches, which take two cycles. It delivers performance in an order of magnitude higher than competitors in the same price category. The easy-to-use and easy to remember instruction set reduces development time significantly.

Specificaties

- Performance
  - Only 33 single-word instructions
  - 12-bit wide instructions
  - Direct, indirect and relative addressing modes for data and instructions
  - 8-bit wide data path
  - Operating speed:
    - 4 MHz internal clock
    - 1 µs instruction cycle
  - In-Circuit Serial Programming™ (ICSP™)
  - Programmable code protection
  - 4 I/O pins
    - 3 I/O pins with individual direction control
    - 1 input-only pin
    - High current sink/source for direct LED drive
    - Wake-on-change
    - Weak pull-ups
  - 8-bit real-time clock/counter (TMR0) with 8-bit programmable prescaler
  - Power-Saving sleep mode
  - Wake-up from sleep on pin charge
  - 256 words Flash program memory
  - 16 bytes SRAM data memory
- Package
  - 8 pin DIL version
  - Operating voltage: 2V to 5.5V

- Operating current:
  - < 175µA @ 2V, 4MHz, typical
- Standby current:
  - 100nA @ 2V, typical

Can be programmed with Velleman VM134 (=K8076) and our USB “in-circuit” programmer PICKIT2