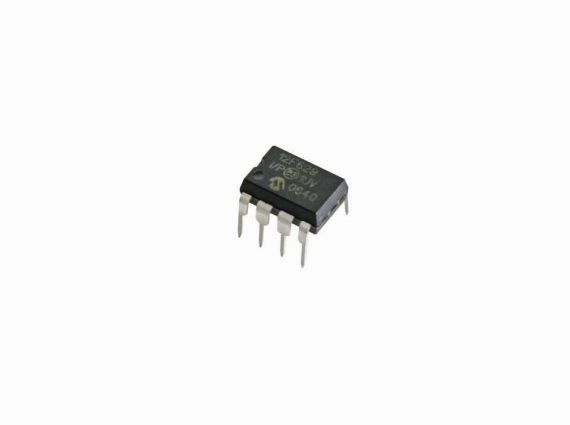
8-bit Microchip microcontroller PIC12F629

Bestelcode: PIC12F629



This powerful (200 nanosecond instruction execution) yet easy-to-program (only 35 single word instructions) CMOS Flash-based 8-bit microcontroller packs Microchip's powerful PIC® MCU architecture into an 8-pin package and features 1 channel comparator and 128 bytes of EEPROM data memory. This device is easily adapted for automotive, industrial, appliances and consumer entry-level product applications that require field re-programmability

Specificaties

- Performance
  - Only 35 single-word instructions
  - Direct, indirect and relative addressing modes for data and instructions
  - Operating speed:
    - Internal oscillator
      - 4 MHz internal clock
      - 1 µs instruction cycle
    - External oscillator
      - 20 MHz
      - 200ns instruction cycle
  - In-Circuit Serial Programming™ (ICSP™)
  - Programmable code protection
  - 6 I/O pins with individual direction control
    - High current sink/source for direct LED drive
    - Wake-on-change
    - Weak pull-ups
  - Timer 0: 8-bit timer/counter (TMR0) with 8-bit programmable prescaler
  - Timer 1: 16-bit timer/counter with external gate input mode
  - Power-Saving sleep mode
  - Wake-up from sleep on pin charge
  - 1024 words Flash program memory
  - 64 bytes SRAM data memory and 128 bytes EEPROM data memory
- Package
  - 8 pin DIL version

- Operating voltage: 2V to 5.5V
- Operating current:
  - 8.5 µA @ 2V, 32kHz, typical
  - 100 µA @ 2V, 1MHz, typical
- Standby current:
  - 1nA @ 2V, typical

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