



PIC12C67X

8-Pin, 8-Bit CMOS Microcontroller with A/D Converter Product Brief

Devices included in this Product Brief:

PIC12C671 and PIC12C672 are 8-bit microcontrollers with 8-bit A/D Converter packaged in 8-lead packages. They are based on the 14-bit PIC16/17 architecture.

High-Performance RISC CPU:

- Only 35 single word instructions to learn
- All instructions are single cycle (1 μ s) except for program branches which are two-cycle
- Operating speed: DC - 4 MHz clock input
DC - 1 μ s instruction cycle

Device	EPROM	RAM
PIC12C671	1024 x 14	128 x 8
PIC12C672	2048 x 14	128 x 8

- 14-bit wide instructions
- 8-bit wide data path
- Interrupt capability
- Special function hardware registers
- Eight-level deep hardware stack
- Direct, indirect and relative addressing modes for data and instructions
- Internal 4 MHz oscillator with programmable calibration
- In-circuit serial programming
- 4-channel 8-bit analog-to-digital converter

Peripheral Features:

- 8-bit real time clock/counter (TMR0) with 8-bit programmable prescaler
- Power-On Reset (POR)
- Power-up Timer (PWRT) and Oscillator Start-up Timer (OSC)
- Watchdog Timer (WDT) with its own on-chip RC oscillator for reliable operation
- Programmable code-protection
- Power saving SLEEP mode
- Interrupt on pin change (GP0, GP1, GP3)
- Internal pull-ups on I/O pins (GP0, GP1, GP3)

- Selectable oscillator options:

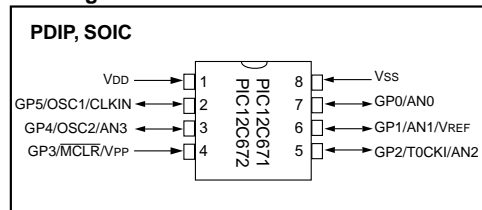
- INTRC: Internal 4 MHz oscillator
- EXTRC: External low-cost RC oscillator
- XT: Standard crystal/resonator
- LP: Power saving, low frequency crystal

- Internal pull-up on $\overline{\text{MCLR}}$ pin

CMOS Technology:

- Low power, high speed CMOS EPROM technology
- Fully static design
- Wide operating voltage range:
 - Commercial: 2.5V to 5.5V
 - Industrial: 2.5V to 5.5V
- Low power consumption
 - < 2 mA @ 5V, 4 MHz
 - 15 μ A typical @ 3V, 32 KHz
 - < 1 μ A typical standby current

Pin Diagram



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