

8 Bit MCU, Flash, PIC16 Family PIC16F8XX Series Microcontrollers, 20 MHz, 3.5 KB, 128 Byte, 28 Pins

Manufacturers	Microchip Technology, Inc
Package/Case	SOIC-28
Product Type	Embedded Processors & Controllers
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for PIC16F882-I/SO or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The PIC16F882/883/884/886/887 devices are covered by this data sheet. The PIC16F882/883/886 devices are available in 28-pin PDIP, SOIC, SSOP and QFN packages. The PIC16F884/887 are available in a 40-pin PDIP and 44-pin QFN and TQFP packages.

Features

Special Microcontroller Features:

- Precision Internal Oscillator:- Factory calibrated to $\pm 1\%$ - Software selectable frequency range of 8 MHz to 32 kHz- Software tunable- Two-Speed Start-Up mode- Fail-safe clock monitoring for critical applications- Clock mode switching during operation for low-power operation
- Power-Saving Sleep mode
- Power-on Reset (POR)
- Selectable Brown-out Reset (BOR) voltage
- Extended Watchdog Timer (WDT) with its own on-chip RC oscillator for reliable operation
- In-Circuit Serial Programming™ (ICSP™) via two pins
- In-Circuit Debug (ICD) via two pins
- High-endurance Flash/EEPROM cell:- 100,000 erase/write cycle enhanced Flash program memory, typical- 1,000,000 erase/write cycle data EEPROM memory, typical- Data EEPROM retention > 40 years
- Self-reprogrammable under software control
- Programmable code protection

Peripheral Features:

Device Features:- 1 input only pin- 25 I/O- High sink/source current 25 mA- Interrupt-on-pin change option

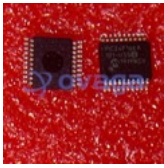
Timers:- TMR0: 8-bit timer/counter with 8-bit prescaler- TMR1 enhanced: 16-bit timer/counter with prescaler, External Gate Input mode and dedicated low-power 32 kHz oscillator- TMR2: 8-bit timer/counter with 8-bit period register, prescaler and postscaler

- Capture/Compare/PWM (CCP) module
- Enhanced Capture/Compare/PWM (ECCP) module with auto-shutdown and PWM steering
- Master Synchronous Serial Port (MSSP) module SPI™ mode, I2C™ mode with address mask capability
- Enhanced Universal Synchronous Asynchronous Receiver Transmitter (EUSART) module:- Supports RS-485, RS-232 and LIN compatibility- Auto-Baud Detect- Auto-wake-up on Start bit
- Ultra Low-Power Wake-up (ULPWU)

Analog Features:

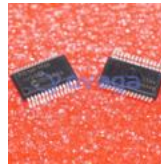
- 10-bit 11 channel Analog-to-Digital (A/D) Converter
- 2 Analog Comparator modules with:- Programmable on-chip Voltage Reference (CVREF) module (% of VDD)- Fixed 0.6 Vref- Comparator inputs and outputs externally accessible- SR Latch mode

Related Products



[PIC24F16KA101-I/SS](#)

Microchip Technology, Inc
SSOP-20



[PIC16F1936-I/SS](#)

Microchip Technology, Inc
SSOP-28



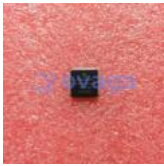
[PIC16F1938-I/SP](#)

Microchip Technology, Inc
PDIP-28



[PIC18F23K22-I/SP](#)

Microchip Technology, Inc
SPDIP-28



[PIC18F6520-I/PT](#)

Microchip Technology, Inc
TQFP-64



[PIC18F2620-I/SP](#)

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SOIC-28



[PIC18F97J60T-I/PT](#)

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TQFP-100