

8-bit Microcontrollers - MCU 8KB Flash 256byte RAM 256byte EEPROM

Manufacturers	<a href="#">Microchip Technology, Inc</a>
Package/Case	SOIC-20
Product Type	Embedded Processors & Controllers
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for PIC18LF13K22-I/SO or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

### Features

C Compiler optimized architecture

256 bytes data EEPROM

Linear program memory addressing to 16 Kbytes

Linear data memory addressing to 512 bytes

Sleep mode: 50 nA, typical

Watchdog Timer: 600 nA, typical

Timer1 Oscillator: 800 nA @ 32 kHz, typical

Factory calibrated to  $\pm 1\%$

Software selectable frequencies range of 31 kHz to 16 MHz

64 MHz performance available using PLL

No external components required

Four crystal modes up to 64 MHz

Fail-Safe Clock Monitor

Allows for safe shutdown if peripheral clock stops

Two-Speed Oscillator Start-up

Operating voltage 1.8V- 5.5V (with low voltage option 1.8V-3.6V)

Self-reprogrammable under software control

Power-on Reset (POR), Power-up Timer (PWRT) and Oscillator Start-up Timer (OST)

Programmable Brown-out Reset (BOR)

Extended Watchdog Timer (WDT) with on-chip oscillator and software enable

In-Circuit Serial Programming™ (ICSP™) via two pins

In-Circuit Debug via two pins

12 Ch. 10-bit Analog-to-Digital (A/D) Converter module:

2 rail-to-rail Analog Comparators module with:

Programmable on-chip voltage reference (CVREF) module (% of VDD)

Selectable Fixed voltage reference (FVR) with multiple reference voltages

High current sink/source 25 mA/25 mA

Three external interrupt pins

3 16-bit timers/counters with prescaler

1 8-bit timer/counter with 8-bit period register, prescaler and postscaler

Programmable dead time

Auto-shutdown and Auto-restart

3-wire SPI (supports all 4 SPI modes)

I2C™ Master and Slave modes (Slave mode with address masking)

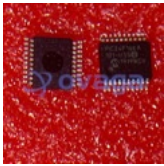
Supports RS-232, RS-485 and LIN 2.0

Auto-Baud Detect

Configurable inputs and outputs

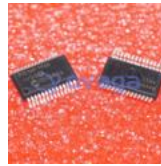
Supports mTouch™ capacitive sensing applications

## Related Products



[PIC24F16KA101-I/SS](#)

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SSOP-20



[PIC16F1936-I/SS](#)

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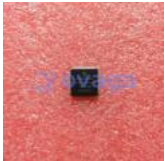
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