PIC18F27K40-I/SO

Data Sheet

8 Bit MCU, XLP, PIC18 Family PIC18F K4x Series Microcontrollers, 64 MHz, 128 KB, 4 KB, 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 PIC18F27K40-I/SO or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

PIC18(L)F27K40 microcontrollers combine large Flash/EE/RAM memory, rich peripheral integration, XLP and 5V support to suit a variety of general purpose applications. These 28-pin devices deliver Core Independent Peripherals such as CWG, WWDT, CRC/Memory Scan, Hardware CVD, Zero-Cross Detect and Peripheral Pin Select, providing for increased design flexibility and lower system cost.

Features

PIC18 Core with 83 Instructions, 31 Stack Levels

Internal 64MHz oscillator

Operating Voltage Range:- 'F' Version (2.3V – 5.5V)- Low Power 'LF' variant (1.8V – 3.6V)

Temperature Range:- Industrial Version (-40C to 85C)- Extended Version (-40C to 125C)

128 KB Flash Program Memory with self read/write capability

3728 Bytes Data SRAM Memory

1024 Bytes of EEPROM

24 x 10-bit ADC channels

1 x 5-bit DAC

2 x Comparators

Fixed Voltage Reference (FVR) module - 1.024V, 2.048V and 4.096V output levels

Hardware Capacitive Voltage Divider (CVD) for mTouch buttons/sliders

1 x Zero-Cross Detect

2 x I2C/SPI

2 x EUSART with LIN support

CRC with Memory Scan

Windowed Watchdog Timer (WWDT)

1 x Hardware Limit Timer (HLT)

1 x Complementary Waveform Generator

2 x standalone 10-bit PWM modules

2 x Capture/Compare/PWM modules

Three 8-bit Timers/Counters

Four 16-bit Timers/Counters

1 x Hardware Limit Timer (HLT)

Extended Watchdog Timer (WDT)

eXtreme Low Power (XLP) technology

Doze, Idle, and Sleep Power Saving Operating Modes

Sleep mode: 50nA @ 1.8V, typical

Low Current Power-on Reset (POR)

Active mode: 32uA/MHz @ 1.8V, typical

Brown-out Reset (BOR)

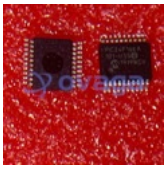
Low-Power BOR (LPBOR)

Peripheral Pin Select

In-Circuit Debug Integrated On-Chip

In-Circuit Serial Programing (ICSP) via Two Pins

Related Products



PIC24F16KA101-I/SS

Microchip Technology, Inc

SSOP-20

PIC16F1936-I/SS

Microchip Technology, Inc

SSOP-28

PIC16F1938-I/SP

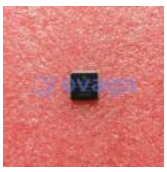
Microchip Technology, Inc

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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SPDIP-28

PIC18F2620-I/SO

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SOIC-28

PIC18F97J60T-I/PT

Microchip Technology, Inc

TQFP-100