

PIC/DSPIC Microcontroller, PIC24 Family PIC24FJ GA Series Microcontrollers, PIC24, 16bit, 32 MHz

Manufacturers	<a href="#">Microchip Technology, Inc</a>
Package/Case	SSOP-28
Product Type	Embedded Processors & Controllers
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for PIC24FJ64GA702-I/SS or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

PIC24F 16-bit Microcontroller featuring up to 256KB of ECC Flash, 16KB of RAM and eXtreme Low Power. It has 12bit ADC at 200ksps with up to 14 analog inputs, 3 comparators and CTMU for touch applications. Available in 28 pin, 44 pin and 48 pin packages. This family is ideally suited for general purpose applications.

## Features

CPU

Modified Harvard Architecture

Up to 16 MIPS Operation @ 32 MHz

8 MHz Internal Oscillator

96 MHz PLL option

Multiple clock divide options

Fast start-up

17-Bit x 17-Bit Single-Cycle Hardware Fractional/Integer Multiplier

32-Bit by 16-Bit Hardware Divider

16 x 16-Bit Working Register Array

## C Compiler Optimized Instruction Set Architecture

Two Address Generation Units for Separate Read and Write Addressing of Data Memory

## Analog Features

Up to 14-Channel, Software Selectable, 10/12-Bit Analog-to-Digital Converter:

12-bit, 200K samples/second conversion rate (single Sample-and-Hold)

Sleep mode operation

Charge pump for operating at lower AVDD

Band gap reference input feature

Windowed threshold compare feature

Auto-scan feature

Three Analog Comparators with Input Multiplexing

LVD Interrupt Above/Below Programmable VLVD Level

Charge Time Measurement Unit (CTMU):

Allows measurement of capacitance and time

Operational in Sleep

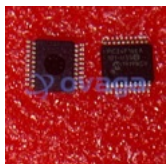
eXtreme Low-Power Features

Sleep and Idle modes Selectively Shut Down Peripherals and/or Core for Substantial Power Reduction and Fast Wake-up

Doze mode Allows CPU to Run at a Lower Clock Speed than Peripherals

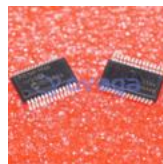
Alternate Clock modes Allow On-the-Fly Switching to a Lower Clock Speed for Selective Power Reduction

## Related Products



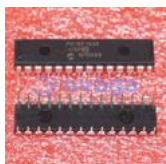
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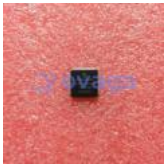
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