

PIC/DSPIC Microcontroller, General Purpose, PIC24 Family PIC24FJ GA Series Microcontrollers, PIC24

Manufacturers	<a href="#">Microchip Technology, Inc</a>
Package/Case	TQFP-64
Product Type	Embedded Processors & Controllers
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for PIC24FJ64GA306-I/PT 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 nanoWatt XLP for eXtreme Low Power consumption. The device includes advanced low power features including a Low Voltage Sleep mode that maintains the device state and RAM with a typical current of 340 nA, and a Vbat pin that automatically transitions to the RTCC to a battery supply when Vdd is removed. The family is also includes a 480 segment LCD Driver with 60 segment x 8 common drive capability. The combination of feature make the part ideally suited to a number of battery powered and general purpose applications.

## Features

Low Power nanoWatt XLP

10 nA Deep Sleep mode

400 nA RTCC in Vbat mode

330 nA Low Voltage Sleep mode (RAM retention)

400 nA Real Time Clock & Calendar operation in Sleep modes

270 nA Watch Dog Timer operation in Deep Sleep modes

150 uA/MHz Run mode

Power Modes: Run, Doze, Idle, Sleep, Low Voltage Sleep, Deep Sleep, Vbat

Multiple, Switchable Clock Modes for Optimum Performance and Power Management

System Supervisors: Low Power BOR, WDT, INT0 and RTCC

## CPU

Up to 16 MIPS performance

Single Cycle Instruction Execution

16 x 16 Hardware Multiply, & 32-bit x 16-bit Hardware Divider

C Compiler Optimized Instruction Set System

## Peripherals

Upto 480 segment LCD Driver with 60 segment x 8 common drive

10/12-bit Differential ADC, 24 channels, 200/500 Ksps with Threshold Detect

Peripheral Pin Select allows I/O remapping of many peripherals in real time

Charge Time Measurement Unit (CTMU) enabling 24 channels of Capacitive Touch

Three Analog rail-to-rail comparators Peripherals

Hardware RTCC, Real-Time Clock Calendar with Alarms

## System

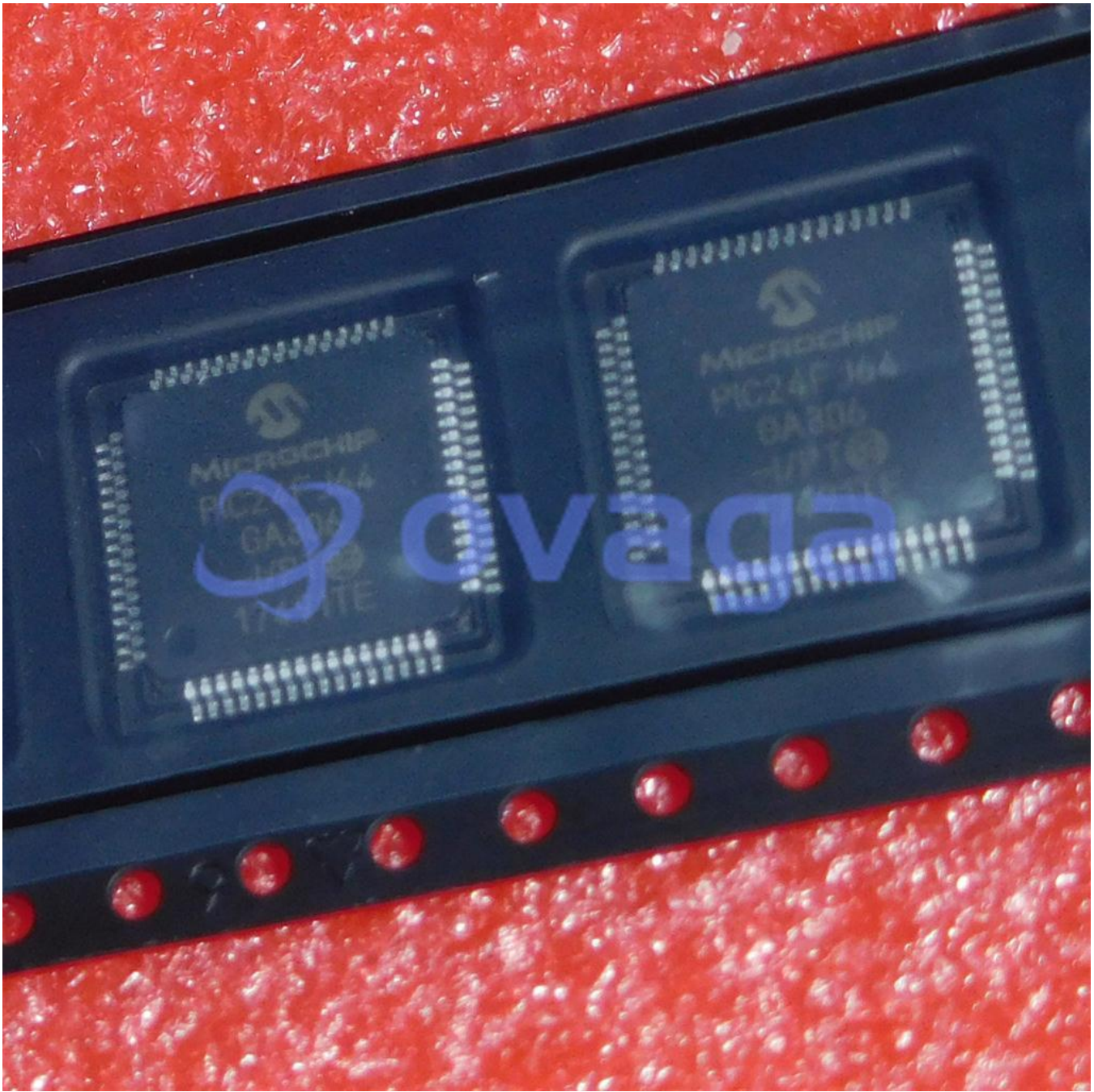
Internal oscillators support - 31 kHz to 8 MHz, up to 32 MHz with 4X PLL

Fail-Safe Clock Monitor - allows safe shutdown if clock fails

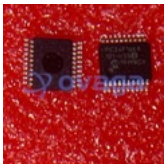
Watchdog Timer with separate RC oscillator

System Supervisors: Low Power BOR, WDT, INT0 and RTCC

JTAG Boundary Scan

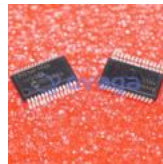


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SSOP-20



#### [PIC16F1936-I/SS](#)

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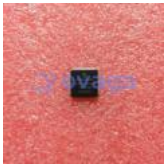
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