

16-bit PIC® MCUs & dsPIC® DSC; Package: 44-TQFP; Temperature Range: -40C to +85C; Container: Tray, Microcontrollers (MCU) 64KB Flash 8KB RAM nanoWatt

Manufacturers	<a href="#">Microchip Technology, Inc</a>
Package/Case	TQFP-44
Product Type	Embedded Processors & Controllers
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for PIC24FJ64GB004-I/PT or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

PIC24 16-bit low power microcontroller with Full-Speed USB, 64 KB Flash memory, 8 KB RAM, and advanced peripherals, 44-pin package

## Features

CPU

Up to 16 MIPS performance

16 x 16 Hardware Multiply, Single Cycle Execution

32-bit x 16-bit Hardware Divider

C Compiler Optimized Instruction Set

System

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

On-chip LDO Voltage Regulator

JTAG Boundary Scan and Flash Memory Program Support

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

Watchdog Timer with separate RC oscillator

## eXtreme Low Power Managed Modes

Run, Idle and Sleep modes

Deep sleep mode for lowest current consumption

Multiple, Switchable Clock Modes for Optimum Performance and Power Management

## Analog Features

10-bit ADC, 13 channels, 500k samples per second

3 Analog comparators

## Other Peripherals

2 UART Modules with LIN and IrDA® support, 4 Deep FIFO

2 SPI™ Modules with 8 Deep FIFO

2 I2C™ Modules with Master and Slave Modes

Five 16-bit Timer Modules

Up to 5 Input Capture and 5 Output Compare / PWM, all with dedicated timers

Hardware RTCC, Real-Time Clock Calendar with Alarms

PMP, Parallel Master Port, with 16 Address Lines, and 8/16-bit Data

Peripheral Pin Select for remapping digital peripherals to I/O

Charge Time Measurement Unit (CTMU) for capacitive touch interface

## Universal Serial Bus Features

USB v2.0 On-the-Go compliant

Dual role capable, can act as either Host or Device

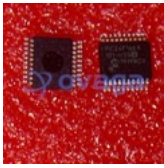
Low speed(1.5Mb/s) and full speed(12 Mb/s) operation in host mode

Full speed USB operation in Device mode

Supports 32 endpoints

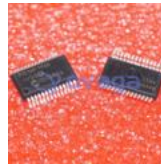
On-chip USB transceiver

## Related Products



[PIC24F16KA101-I/SS](#)

Microchip Technology, Inc  
SSOP-20



[PIC16F1936-I/SS](#)

Microchip Technology, Inc  
SSOP-28



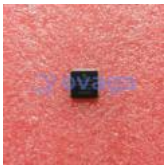
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