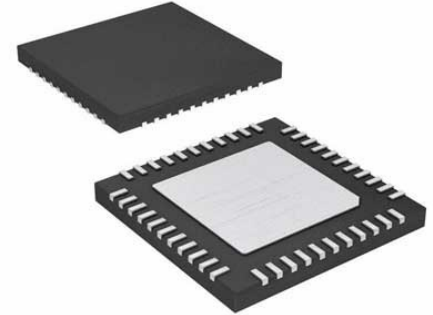16-bit PIC® MCUs & dsPIC® DSC; Package: 44-QFN; Temperature Range: -40C to +85C; Container: Tube,Microcontrollers (MCU) 64KB Flash, 8KB RAM nanoWatt, USB OTG

Manufacturers	Microchip Technology, Inc
Package/Case	QFN-44
Product Type	Embedded Processors & Controllers
RoHS	Rohs
Lifecycle	

Images are for reference only

Please submit RFQ for PIC24FJ64GB004-I/ML or Email to us: 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

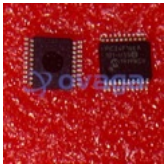Dual role capable, can act as either Host or Device

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

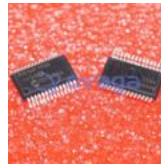Full speed USB operaton in Device mode

Supports 32 endpoints

On-chip USB transceiver

Related Products

PIC24F16KA101-I/SS

Microchip Technology, Inc

SSOP-20

PIC16F1936-I/SS

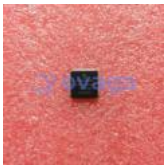Microchip Technology, Inc

SSOP-28

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

Microchip Technology, Inc

SPDIP-28

PIC18F2620-I/SO

Microchip Technology, Inc

SOIC-28

PIC18F97J60T-I/PT

Microchip Technology, Inc

TQFP-100