

PIC24EP512GP202-I/MM

Data Sheet

16-bit Microcontrollers - MCU 16B MCU 512KB Flsh 48KB RAM OpAmp Cmptr

Manufacturers	Microchip Technology, Inc	
Package/Case	QFN-28	the state of the s
Product Type	Embedded Processors & Controllers	FEFE INNI
RoHS	Rohs	
Lifecycle		Images are for reference only

Please submit RFQ for PIC24EP512GP202-I/MM or Email to us: sales@ovaga.com We will contact you in 12 hours.

General Description

The PIC24E general purpose MCUs feature the high speed 70 MIPS core with excellent performance and code density. It offers superior ADC performance, CTMU, Op Amps and Peripheral Trigger Generator (PTG) for high-end general purpose applications. These devices are available in various packages and with extended (125°C) temp option.

Features

Operating Conditions

3.0V to 3.6V, -40°C to +85°C, DC to 70 MIPS

3.0V to 3.6V, -40°C to +125°C, DC to 60 MIPS

PIC24E MCU Core

Modified Harvard Architecture

C Compiler Optimized Instruction Set

16-bit Wide Data Path

24-bit Wide Instructions

16x16 Integer Multiply Operations

32/16 and 16/16 Integer Divide Operations

Advanced Analog Features

Ovaga Technologies Limited

ADC module Configurable as 10-bit, 1.1 Msps with four S&H or 12-bit, 500 ksps with one S&H

Up to three Op amp/Comparators Op Amp direct connection to the ADC module Additional dedicated comparator Programmable references with 32 voltage points for comparators Charge Time Measurement Unit (CTMU) supports mTouchTM capacitive touch sensing Timers/Output Compare/Input Capture 12 general purpose timers Five 16-bit and up to two 32-bit timers/counters Four OC modules configurable as timers/counters Four IC modules Peripheral Trigger Generator (PTG) for scheduling complex sequences PTG module with two configurable timers/counters Communication Interfaces Two UART modules (15 Mbps) Two 4-wire SPI modules (15 Mbps) Two I2CTM modules (up to 1 Mbaud) with SMBus support PPS to allow function remap Programmable Cyclic Redundancy Check (CRC) Direct Memory Access (DMA) 4-channel DMA with user selectable priority arbitration UART, SPI, ADC, IC, OC, and Timers

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/SO

Microchip Technology, Inc SOIC-28



PIC18F2620-I/SP

Microchip Technology, Inc SPDIP-28

PIC18F97J60T-I/PT

Microchip Technology, Inc TQFP-100