

MCU 32-bit PIC RISC 1MB Flash 3.3V Automotive 100-Pin TQFP Tray

Manufacturers	Microchip Technology, Inc
Package/Case	TQFP-100
Product Type	Embedded Processors & Controllers
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for PIC32MK1024GPE100-E/PT or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

PIC32MK family devices combine 32-Bit, 120Mhz performance with up to 1MB of Flash memory, and a rich peripheral set targeting applications such as motor control, industrial control and Industrial Internet of Things (IIoT) and multi-channel CAN applications.

These devices feature 7x 12-Bit ADC's each operating at up to 3.75MSPS, which can be combined and sequenced to provide up to 18MSPS sampling rates!

Features

120Mhz MIPS32 microAptiv MCU Core

Floating Point Unit for single and double precision math

MicroMIPS Mode for 40% smaller code size

Four 64-bit Accumulators

Single Cycle MAC supporting saturating and fractional math

1MB Dual Panel Flash with Live Update support

4KB EEPROM

7x 12-bit 3.75MSPS ADC Cores up to 42 analog inputs

Four Op amps

Five analog comparators

Up to three 12-bit DACs

16 Output Compare

16 Input Capture

RTCC

Dual FS USB2.0

4 CAN 2.0B Modules

Up to six UART Modules (up to 25Mbps) with LIN and IrDA support

Up to six SPI/I2S modules

Peripheral Pin Select (PPS) to enable remappable pin functions

AEC-Q100 REVG (Grade 1 -40°C to +125°C) (planned)

Class B Safety Library, IEC 60730 (planned)

Back-up internal oscillator

Programmable High/Low-Voltage Detect module

Clock monitor with Back-up Internal Oscillator

Global register locking

In-circuit and in-application programming

2-wire or 4-wire MIPS® Enhanced JTAG interface

Unlimited software and 12 complex breakpoints

IEEE 1149.2-compatible (JTAG) boundary scan

Non-intrusive hardware-based instruction trace

MPLAB X Integrated Development Environment (IDE)

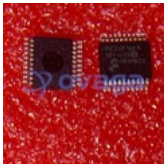
MPLAB® Harmony Integrated Software Framework

USB, Graphics, and mTouch™ middleware

MFi, Android™, and Bluetooth® audio frameworks

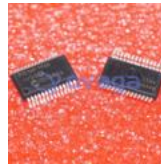
RTOS Kernels: Express Logic ThreadX, FreeRTOS™, OPENRTOS®, Micrium® µC/OS™, and SEGGER

Related Products



[PIC24F16KA101-I/SS](#)

Microchip Technology, Inc
SSOP-20



[PIC16F1936-I/SS](#)

Microchip Technology, Inc
SSOP-28



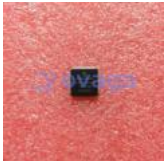
[PIC16F1938-I/SP](#)

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PDIP-28



[PIC18F23K22-I/SP](#)

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[PIC18F6520-I/PT](#)

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TQFP-64



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