

PIC/DSPIC Microcontroller, High Performance, PIC32 Family PIC32MX Series  
Microcontrollers, PIC32

Manufacturers	<a href="#">Microchip Technology, Inc</a>
Package/Case	TQFP-100
Product Type	Embedded Processors & Controllers
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for PIC32MX575F512L-80I/PF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

### Features

MCU Core

80MHz/105DMIPS, 32-bit MIPS M4K Core

USB 2.0 On-The-Go Peripheral with integrated PHY

CAN2.0b module with 1024 transmit/receive buffers

4 Dedicated DMA Channel for USB OTG

5 Stage pipeline, Harvard architecture

MIPS16e mode for up to 40% smaller code size

Single cycle multiply and hardware divide unit

32 x 32-bit Core Registers

32 x 32-bit Shadow Registers

Fast context switch and interrupt response

## MCU System Features

512K Flash (plus 12K boot Flash)

64K RAM (can execute from RAM)

8 Channel Hardware DMA Controller

Flash prefetch module with 256 Byte cache

Lock instructions or data in cache for fast access

Programmable vector interrupt controller

## Analog Features

Fast and Accurate 16 channel 10-bit ADC,

Max 1 Mega samples per second at +/- 1LSB, conversion available during SLEEP & IDLE

## Power Management Modes

RUN, IDLE, and SLEEP modes

Multiple switchable clock modes for each power mode, enables optimum power settings

## Debug Features

iFlow Trace: Non-intrusive Hardware Instruction Trace port (5 Wires)

8 hardware breakpoints (6 Instruction and 2 Data)

2 wire programming and debugging interface

JTAG interface supporting Programming, Debugging and Boundary scan

## Other MCU Features

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

Hardware RTCC (Real-Time Clock and Calendar with Alarms)

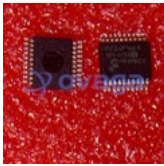
2 Internal oscillators (8MHz & 31KHz)

Watchdog Timer with separate RC oscillator

Pin compatible with 16-bit PIC® MCUs

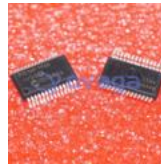
Serial Communication Modules allow flexible UART/SPI/I2C™ configuration

## Related Products



[PIC24F16KA101-I/SS](#)

Microchip Technology, Inc  
SSOP-20



[PIC16F1936-I/SS](#)

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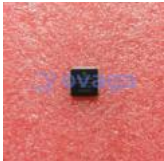
[PIC16F1938-I/SP](#)

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