

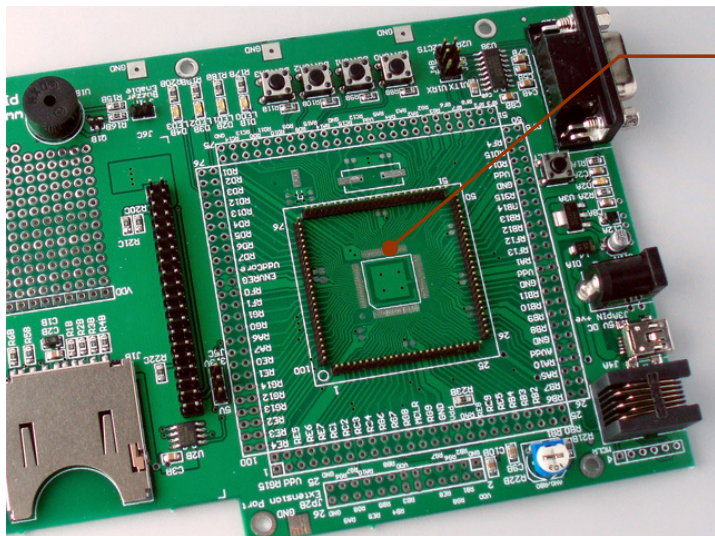
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## INTRODUCTION

The part number PIC24/32-Eval-Rev C2 provides a low-cost platform to evaluate high pin-count 16-bit/32-bit microcontrollers of Microchip. There are four ordering options available:

### (1) PIC24/32-Eval-Rev C2 - Option for Plug-In-Module (w/o MCU)

This option omits the microcontroller onboard (designator U1A on schematic) leaving only 100-pin Plug-in-module socket (designator U2A) therefore different microcontrollers can be used for development.

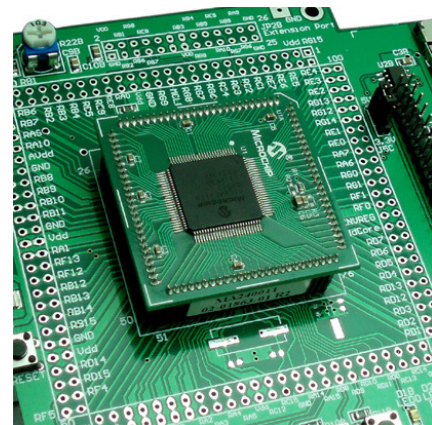


No mcu soldered here, leaving only 1.27mm 100-pin header for PIM

Processor Plug-In Modules (PIM) are small circuit boards to be used with the various Microchip Development Boards, e.g. Explorer 16. Further information can be found from Microchip web site at the following hyperlink.

[http://www.microchip.com/stellent/idcplg?IdcService=SS\\_GET\\_PAGE&nodeId=1406&dDocName=en531260](http://www.microchip.com/stellent/idcplg?IdcService=SS_GET_PAGE&nodeId=1406&dDocName=en531260)

Microchip is offering its PIM at incredible low cost of US\$25.00, I would recommend customers going directly to Microchip online if the target microcontroller model is available in PIM format. However, we do offer innovative PIM for some of the Microchip products to remap a lower MCU (e.g. PIC18F67J50) to 100-Pin PIM socket. The idea of remap is to fully utilize peripherals of the PIC24/32 evaluation board and at the same time, minimize production cost to keep selling price lower than US\$25.00. Please check our company web site for details. Below please find a picture with a Microchip PIM for 16-bit PIC24FJ128GA010 in place.



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### (2) PIC24/32-Eval-Rev C2 - Option PIC24FJ128GA010 onboard

With just US\$5.00 added to option 1, this board has got the PIC24FJ128GA010 16-bit microcontroller soldered onboard to designator U1A in form of 12x12mm 100-lead TQFP package.

### (3) PIC24/32-Eval-Rev C2 – Option PIC24FJ256GA110 onboard

If you are still not comfortable with 128kb Flash/8kb SRAM of PIC24FJ128GA010, you may consider the third option with PIC24FJ256GA110. This powerful microcontroller provides an ample Flash space of 256kb Flash/16kb SRAM. Besides, on top of all features of PIC24FJ128GA010 family, there are the Peripheral Pin Select feature and Charge Time Measurement Unit (CTMU) that open up new applications to this mcu. The Peripheral Pin Select feature provides an alternative to user's choice of peripheral functions (such as UART and SPI) on a wide range of I/O pins. Therefore it is not restricted to use only pin 49 and pin 50 for U2RX and U2TX for UART. It is possible to map these pins to other I/O pins for more hardware design flexibility. The Charge Time Measurement Unit is a flexible analog module that provides accurate differential time measurement between pulse sources as well as pulse generation, which is good for interface with capacitive-based sensors, for example the Touch Sensing human interface.

### (4) PIC24/32-Eval-Rev C2 – Option PIC32MX360F512L onboard

Thanks to the compatibility design among PIC32 to PIC24 series, it is possible for us to use the same footprint of 12x12mm TQFP-100 across these 16-bit to 32-bit MCU. This option uses the same motherboard for Microchip 32-bit microcontroller of MIPS32 M4K core running as high as 80MHz! The picture below shows a PIC32MX360F512L microcontroller soldered. The same footprint would be used for PIC24FJ128GA010 or PIC24FJ256GA110 as they are pin-compatible.

