

PIC24F Curiosity Development Board

Part Number: DM240004

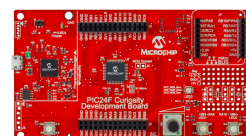
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The PIC24F Curiosity Development Board is a cost-effective, fully integrated 16-bit development platform targeted at first-time users, Makers, and those seeking a feature-rich rapid prototyping board. Designed from the ground-up to take full advantage of Microchip's MPLAB® X IDE and MPLAB Xpress Cloud-based IDE, the board includes an integrated programmer/debugger and requires no additional hardware, making it a perfect starting point to explore PIC24F MCUs.

The PIC24F Curiosity Board is the perfect platform to harness the power of **16-bit PIC24F Microcontrollers**. Its layout and external connections offer unparalleled access to the Core Independent Peripherals (CIPs). These CIPs enable the user to integrate various system functions onto a single MCU, simplifying the design and keeping system power consumption and BOM cost low.



Crafted for Cloud-Based Development

The PIC24F Curiosity Development Board offers seamless integration with software tool chain, including the **MPLAB Xpress** Cloud-based IDE, **XC16 compiler** and **MPLAB Code Configurator** for easy set-up and prototyping.

Internet of Things (IoT) Ready

The PIC24F Curiosity Board can help turn your IoT design idea into a reality. Out of the box, the board offers several options for user interface—including switches, LEDs and potentiometer. A full complement of accessory boards are available via the MikroElektronika mikroBUS™ interface. To address the security requirements in IoT designs, **PIC24FJ128GA204** comes equipped with integrated hardware Cryptographic engine for data encryption/decryption and authentication. In addition, Bluetooth® Low Energy communication can easily be added using Microchip's **BM71** module footprint.

Visit our **Curiosity Design Center** for more information on the Curiosity platform.

Features

Package Contents

Accessories Support

Key Features

- Features PIC24FJ128GA204 low power (XLP) microcontroller with an integrated Cryptographic engine
- Integrated programmer/debugger with USB interface
- Analog potentiometer, multiple user LED's, RGB LED and switches
- Full compatibility with MPLAB Xpress, MPLAB X IDE, XC16 compiler and MPLAB Code Configurator
- Functionality expansion support with mikroBUS™ interface for Click™ Boards
- Wireless connectivity provision with Microchip's BM71 Bluetooth LE module footprint

Documents	Last Updated	Size	
Curiosity Development Boards Sell Sheet	12/5/2016 4:09:32 PM	1MB	
Simplifying 16-bit PIC® Microcontroller Designs Sell Sheet	11/29/2016 3:54:46 PM	827KB	
PIC24F Curiosity Board Demo	11/14/2016 12:52:53 AM	19KB	
PIC24F Curiosity Click Board Demos	11/14/2016 12:52:07 AM	348KB	
PIC24F Curiosity Development Board Quick Start Guide	11/9/2016 9:47:03 PM	159KB	



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