PIC24FJ256GA7 Curiosity Development Board ★

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PIC24FJ256GA7 Curiosity Development Board
(Part # DM240016)

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The PIC24FJ256GA7 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 the latest low-cost and eXtreme Low Power (XLP) 16-bit PIC24FJ256GA705 family of Microcontrollers.

The PIC24FJ256GA7 Curiosity Board enables easy and faster adoption of low-cost XLP 16-bit PIC24FJ256GA705 family of microcontrollers. PIC24FJ256GA705 microcontroller featuring up to 256KB of ECC flash and 16KB of RAM, is ideally suited for low power general purpose applications. The layout and external connections of PIC24FJ256GA7 Curiosity board offer unparalleled access to the Core Independent Peripherals (CIPs) such as CLC, MCCP and DMA. 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 PIC24FJ256GA7 Curiosity Development Board offers seamless integration with the Microchip 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
Have an IoT design in mind? The PIC24FJ256GA7 Curiosity Board can help turn your IoT design idea into reality. The board can enable applications with low power, low pin count and small footprint requirements as in IoT sensor nodes. Out of the box, the board offers several options for user interface—including switches, RGB LED, User LEDs and analog potentiometer. In addition, wireless connectivity can easily be added using 2 mikroBUS™ interfaces and wireless connectivity click boards™. A full complement of accessory boards is available via the MikroElectronika mikroBUS™ interfaces.

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

| Features | Package Contents | Accessories Support |

Key Features

• Features low cost PIC24FJ256GA705 eXtreme low power (XLP) microcontroller
    • eXtreme Low Power with Low Voltage Retention Sleep current down to 190nA @ 25C for longer battery life
• Integrated programmer/debugger with USB interface
• Analog potentiometer, multiple user LEDs, RGB LED and switches
• Full compatibility with MPLAB Xpress, MPLAB X IDE, XC16 compiler and MPLAB Code Configurator
• Functionality expansion support with dual mikroBUS™ interfaces for click boards™

• Female headers to access microcontroller I/O pins
• Small prototyping area for the user to add additional components
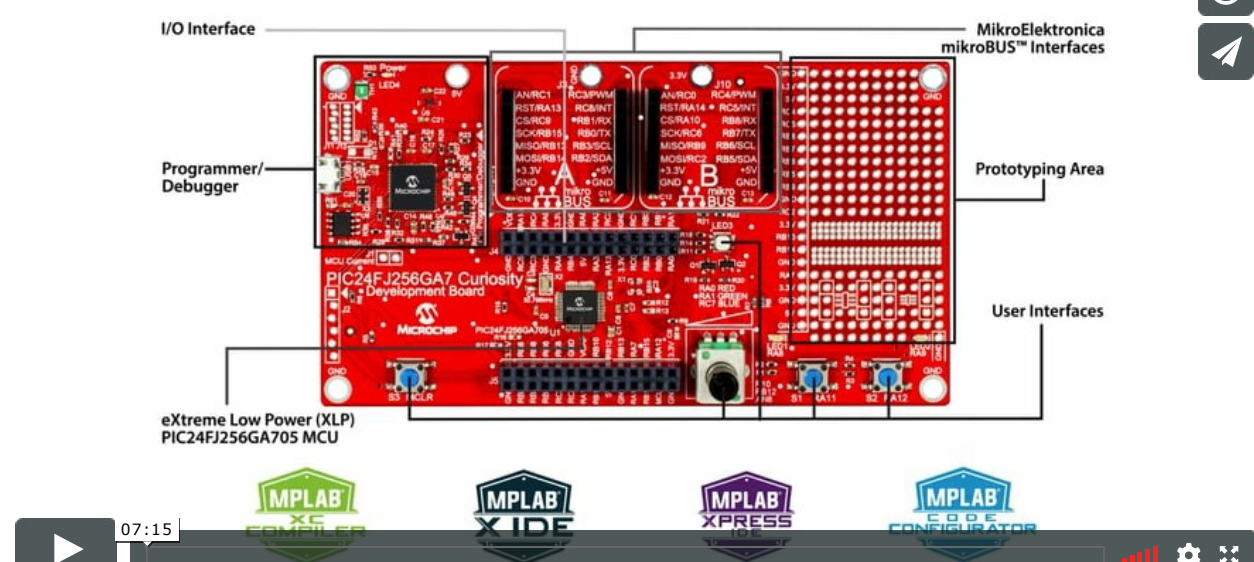
Documentation & Software

Documents	Last Updated	Size	
★ Curiosity Development Boards Sell Sheet	7/13/2017 5:21:28 PM	1009KB	
★ PIC24FJ256GA7 Curiosity Click Board Demos	6/5/2017 8:42:10 PM	370KB	
★ PIC24FJ256GA7 Curiosity Development Board Demo code	6/5/2017 8:31:08 PM	29KB	
★ PIC24FJ256GA7 Curiosity Development Board Quick Start Guide	6/1/2017 11:15:13 PM	172KB	
★ Simplifying 16-bit PIC® Microcontroller Designs Sell Sheet	11/29/2016 3:54:46 PM	827KB	

PIC24FJ256GA7 Curiosity Development Board Related Videos.

PIC24FJ256GA7 Curiosity Development Board

Get started with your next embedded project with the latest
cost-effective PIC24FJ256GA7 Curiosity Development Board based on the new 16-bit PIC24FJ256GA705, a low-cost
eXtreme Low Power Microcontroller.
Functionality expansion support with dual mikroBUS™ interfaces for supporting hundreds of MikroElektronika click
boards™ and full compatibility with MPLAB® Code Configurator and MPLAB Xpress, make it a perfect platform to
explore 16-bit PIC24F XLP MCUs and prototype your application.

For more information, please visit:
http://www.microchip.com/DM240016
or
http://www.microchip.com/PIC24FJ256GA705