PIC32MZ DA Curiosity Development Kit

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Part Number: EV87D54A

Summary:

This low-cost Curiosity Development platform puts the PIC32MZ DA Graphics Microcontroller on a flexible, accessible development platform. The perfect meld of performance and flexibility, The PIC32MZ DA Curiosity Development Board (EV87D54A) includes an integrated graphics adaptor for interfacing the the microcontroller's built-in multi-layer graphics controller and 2d graphics processor.

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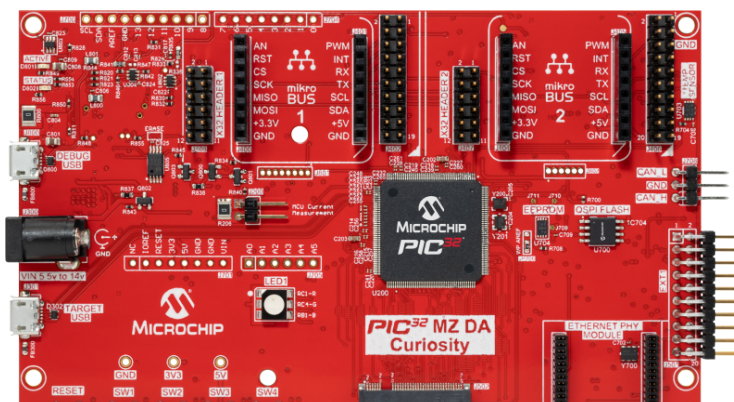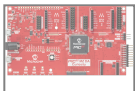
Includes the PIC32MZ DA Graphics MCU

- 200MHz MIPS Core

- 24-bit Graphics Controller

- 2D Graphics Processor

- 32MB DDR2 DRAM

Latest PKoB for faster debugging and programming

- DGI support

Graphics adaptor

2 x32 header for audio I/O using Microchip audio daughter boards

Ethernet PHY daughter board header

Host mode power jumper

Multiple power source option (via jumper)

- USB (Primary supply) with USB Micro-B Bemale connector

- 9V adapter power supply connector footprint

- External 3.3V / 5V regulated DC power supply connectable directly to the pads

- Power indicator LED with voltage / GND line access points for debugging

- Dual Power option with 3.3V and 5V to be supported (5V required for Click Board daughter cards, while PIC32MX will only have 3.3V variant)

4 User Switches

- User-defined RGB LEDs which may be used for indication purpose

Extremely compact form factor (10cm X 5cm or lesser). The form factor must resemble in shape, color, look and feel of MCU 8/16 Curiosity board

Easy access to MCU I/O – use 100 mill header holes to extract all MCU IO's with female connectors populated

Updated SNAP Board Programmer Debugger

- PICkit On Board (no external programmer/debugger needed)

- USB enabled debugger and programming interface using PIC24FJ256GB106 device, so that no external components are required for development

- Through holes to support ICSP if customer chooses to use real ICE/ICD tools

Arduino header

Real Time Clock/Calendar 32.768kHz crystal

Provision for two MikroElektronika mikroBUS™ Expansion connectors

- Footprint for 2 of the mikroBUS™ Click™ board

  - Access points of all Click board pins to be available next to female connectors

  - Unpopulated host connector for over 90 "Click™" compact add-on cards (plug-and-play) : http://www.mikroe.com/click/

- Three groups of communication pins: SPI, UART and I2C communication with single pins for PWM, Interrupt, Analog input, Reset and Chip Select

- Dual power design which supports 3.3V and 5V

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