Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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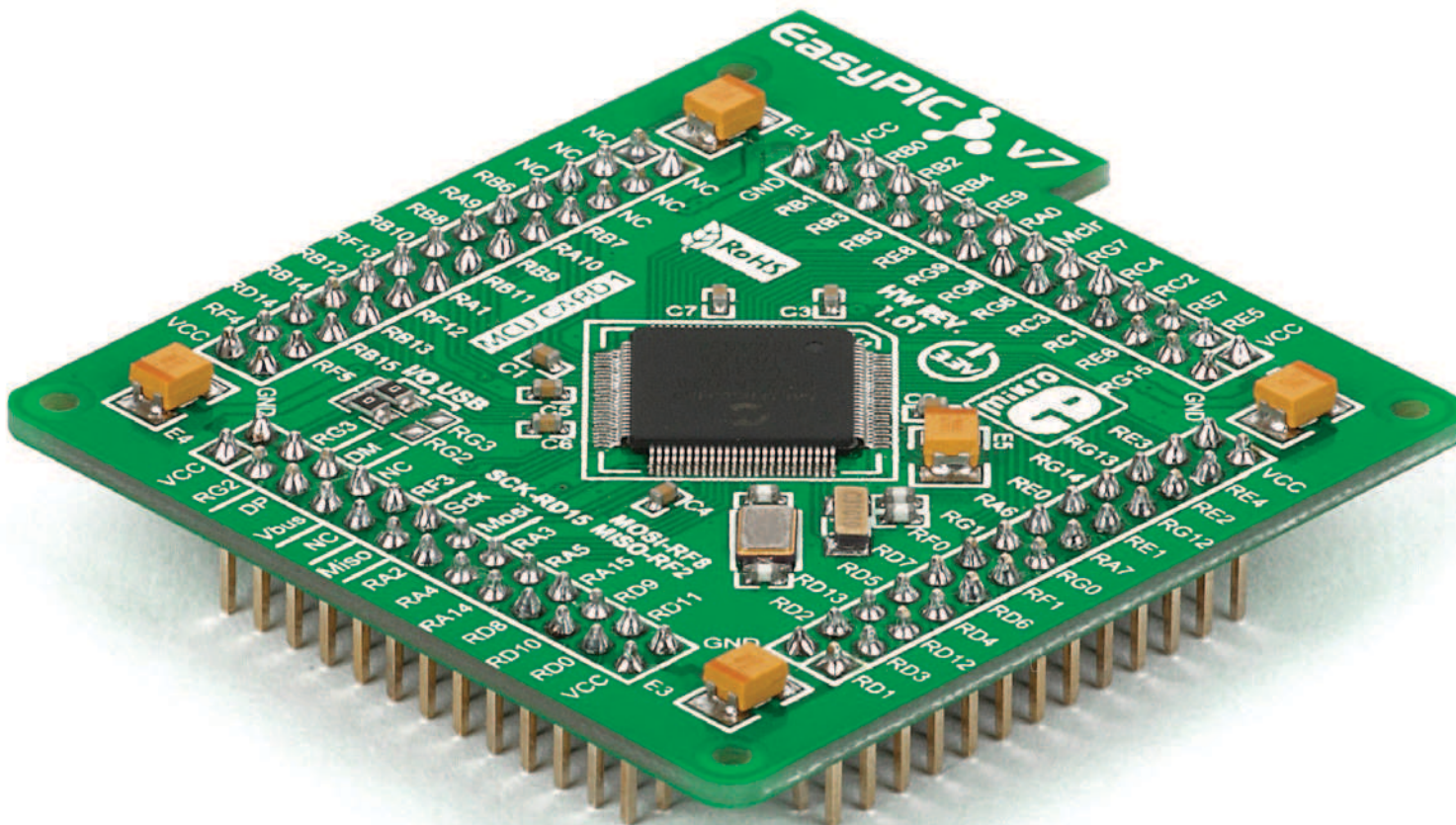
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100-pin TQFP PT MCU CARD 1 with
PIC24FJ128GA310

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Card information

The PT MCU CARD 1 is shown on **Figure 1**. It contains a **PIC24FJ128GA310** microcontroller with on-chip peripherals and is a great choice for both beginners and professionals. After testing and building the final program, this card can also be taken out of the board socket and used in your final device.
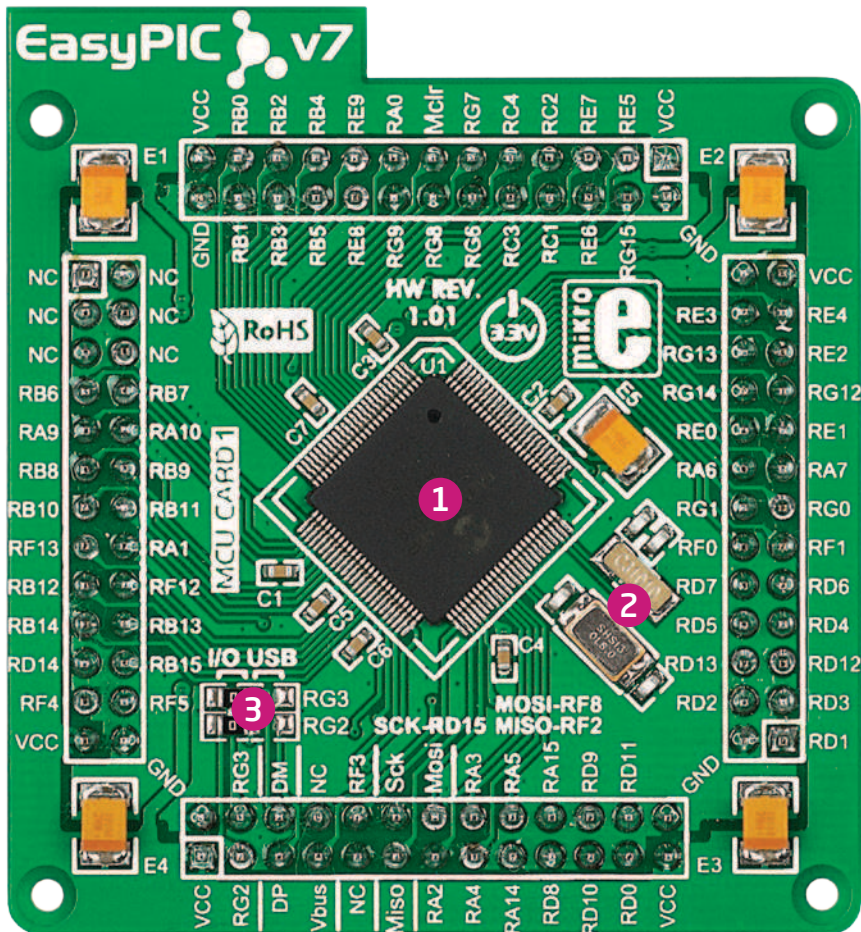

Figure 1: MCU card with PIC24FJ128GA310

1 **PIC24FJ128GA310** has **16 MIPS** CPU speed, **128K bytes** of program memory (flash), **8K bytes** of data memory. It has LCD display controller, 85 General purpose **I/O pins**, **16-bit and 32-bit timers**, 10/12-bit **ADC** (24 ch), 4 **UARTs**, internal 8MHz and 32kHz oscillators, internal Real time clock (**RTC**), 2 **I2C** and 2 **SPI**. It also contains 3 **analog comparators** and programming and debugging interface.

2 **8MHz crystal oscillator.** We carefully chose the most convenient crystal value that provides clock frequency which can be used directly, or with the PLL multipliers to create higher MCU clock value. MCU card also contains 32.768 kHz crystal oscillator which provides external clock waveform for RTCC module.

3 **USB communications lines.** These two jumpers, when in USB position, connect D+ and D- lines of the on-board USB connector with RG2 and RG3 microcontroller pins. Since **PIC24FJ128GA310** doesn't have USB support, jumpers are in I/O position.
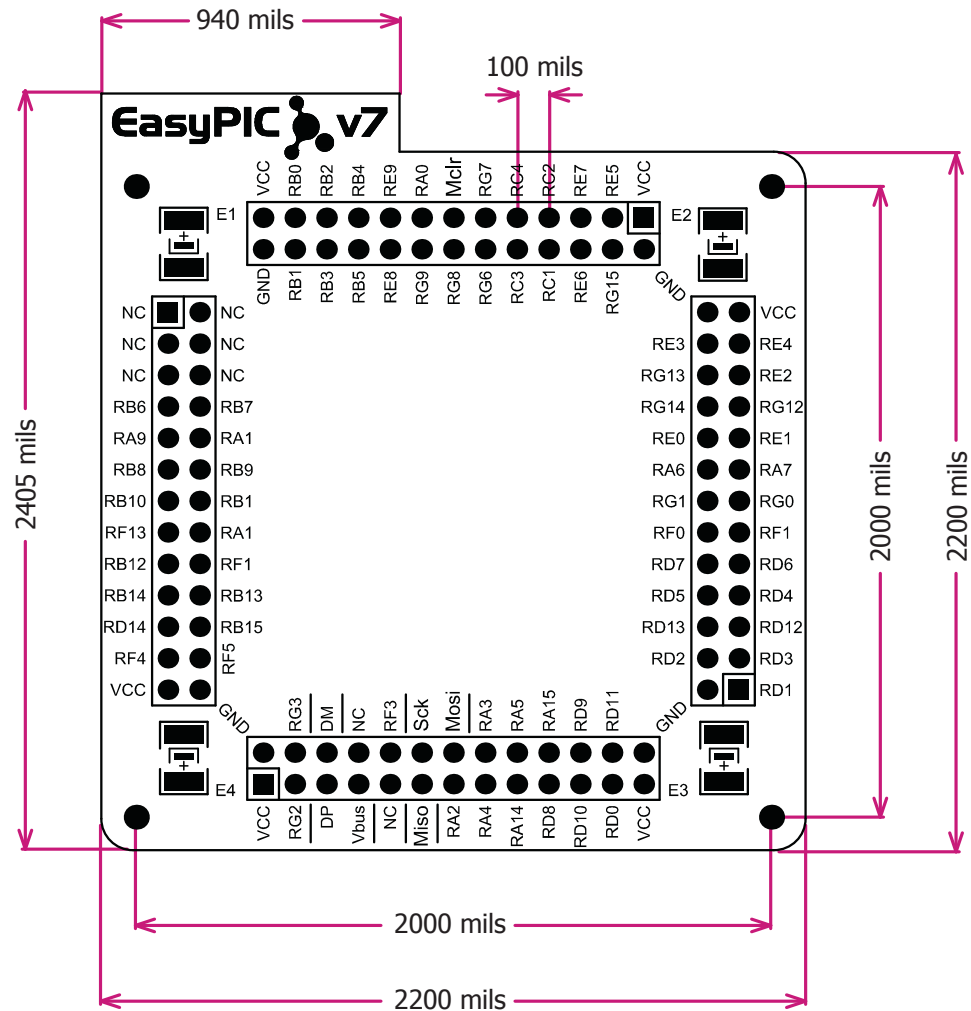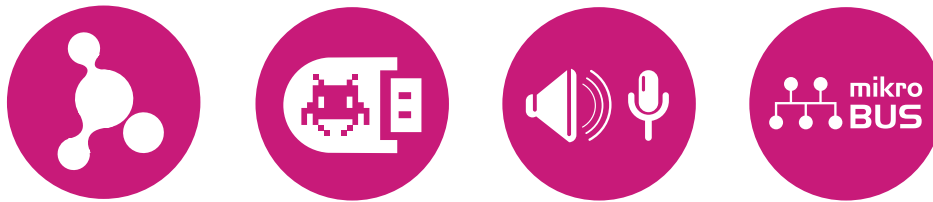
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Figure 2: MCU card schematic

Card dimensions

Figure 3: MCU card dimensions.

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