



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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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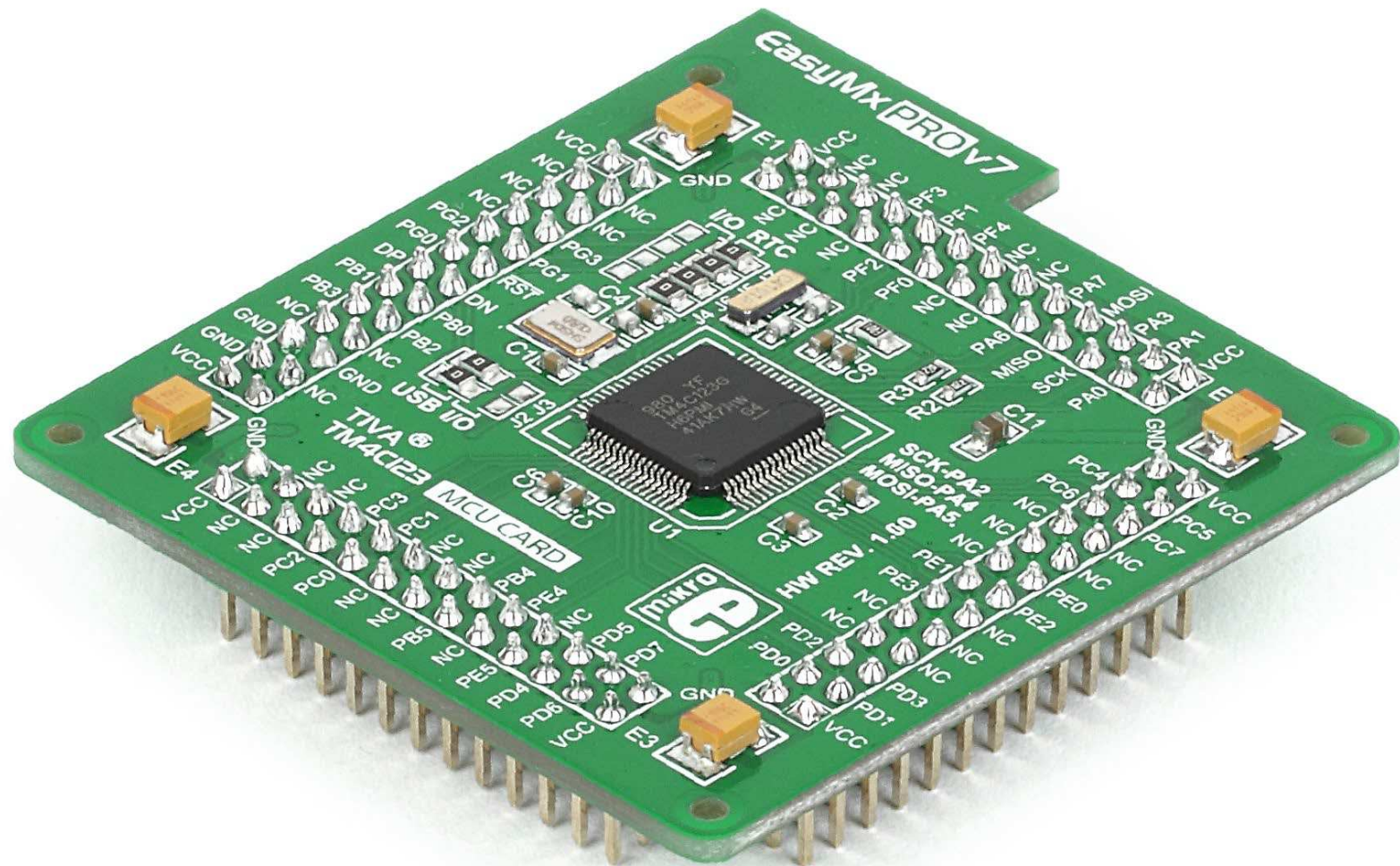
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Standard 64-pin MCU card with **TM4C123GH6PM**



Card information

The **MCU card** is shown on **Figure 1**. It contains the **TM4C123GH6PM** microcontroller which is loaded with on-chip modules 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.

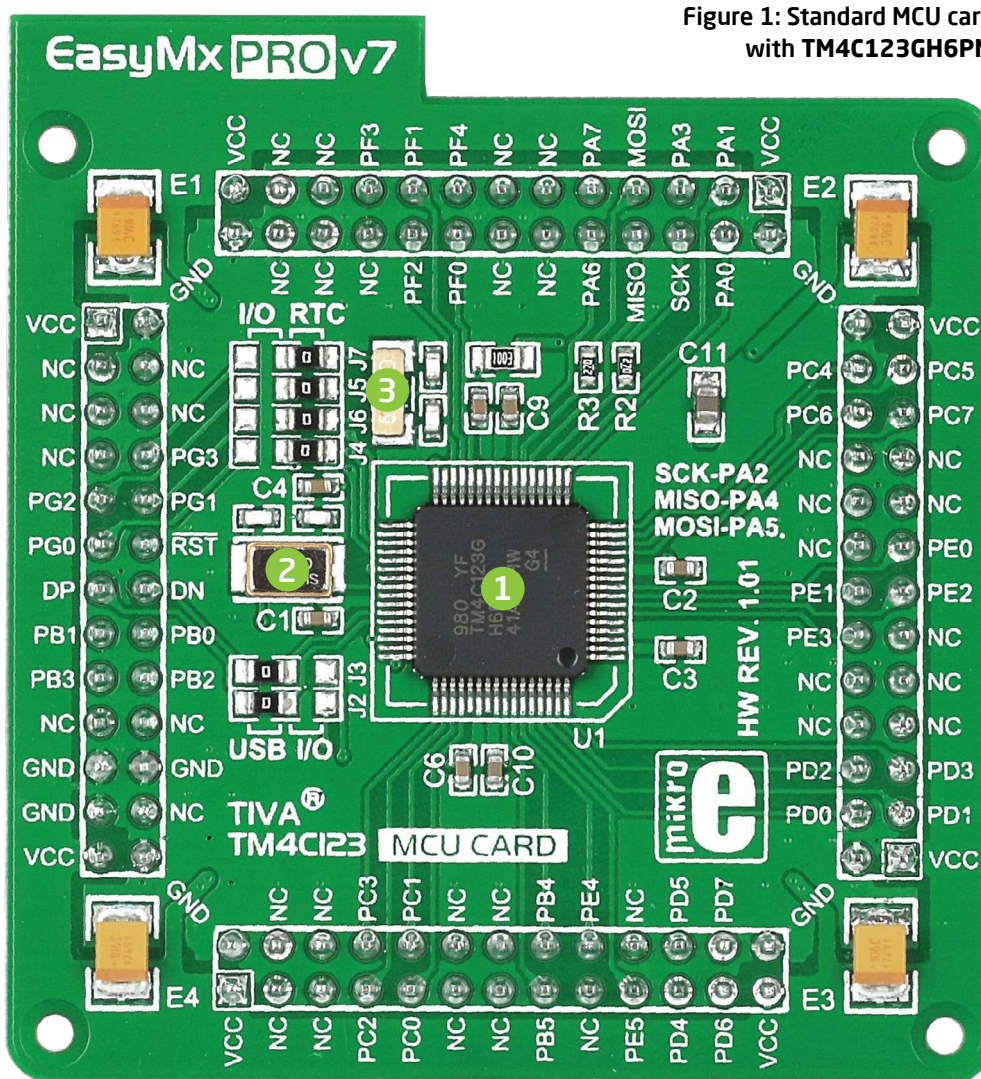


Figure 1: Standard MCU card with TM4C123GH6PM

- 1** **TM4C123GH6PM** belongs to the ARM® Cortex™-M4 family. It operates at **80MHz**, has **256 KB** of Flash memory, **32 KB** of single-cycle System SRAM, **USB 2.0** (OTG, Host, Device), Up to 43 General purpose **I/O pins**, 6x32-bit **timers**, 2x12-bit **A/D** (12 channels), a 12-bit **D/A**, 8x**UARTs**, internal Real-time clock (**RTC**), 4x**I2C**, 4x**SPI** and 2x**CAN** controllers. It has Serial wire debug (**SWD**) and **JTAG** interfaces for programming and debugging.
- 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.
- 3** **32.768-kHz external crystal oscillator** which provides external clock for the internal hibernation module.

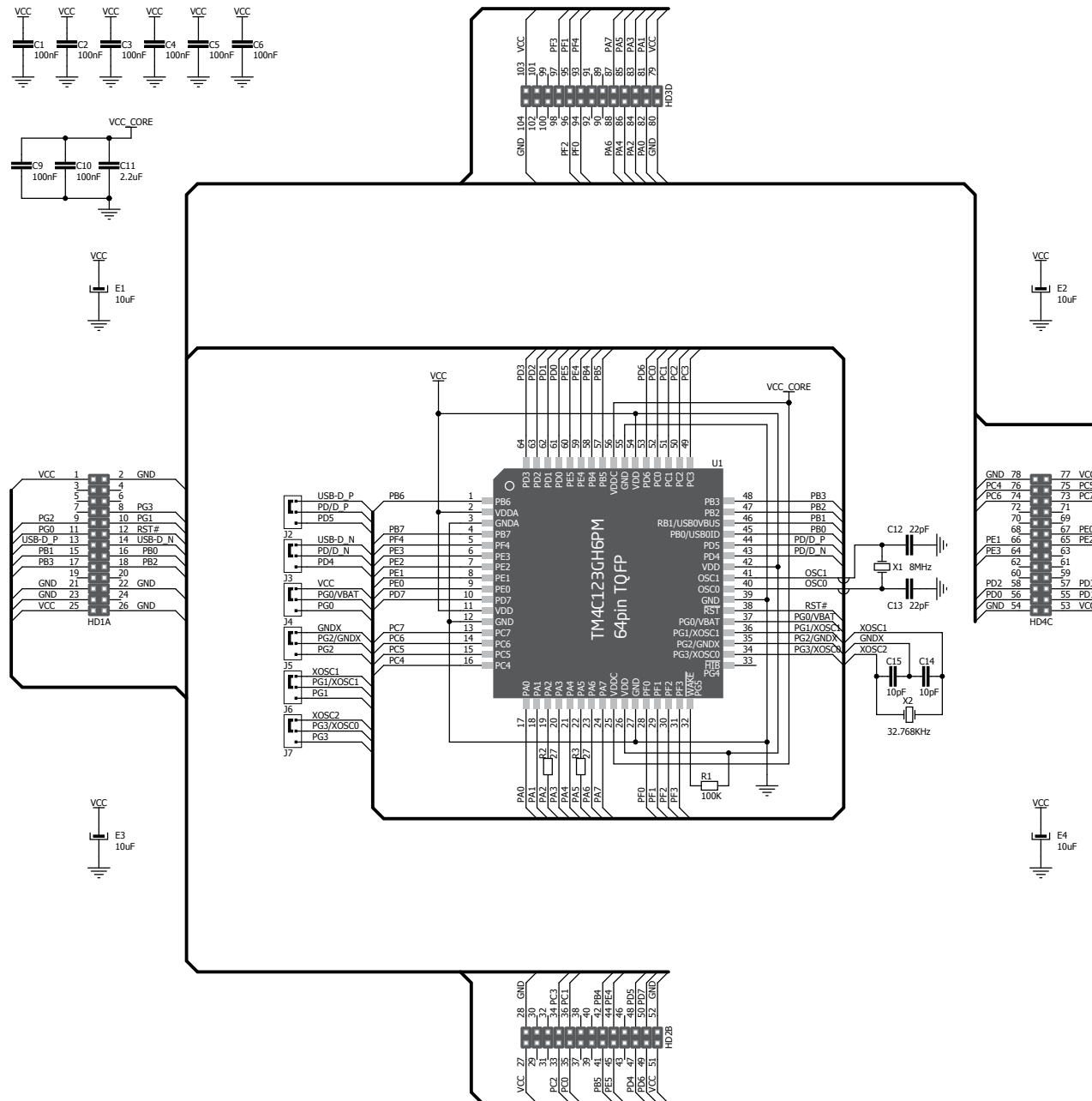


Figure 2: MCU card schematics

Card dimensions

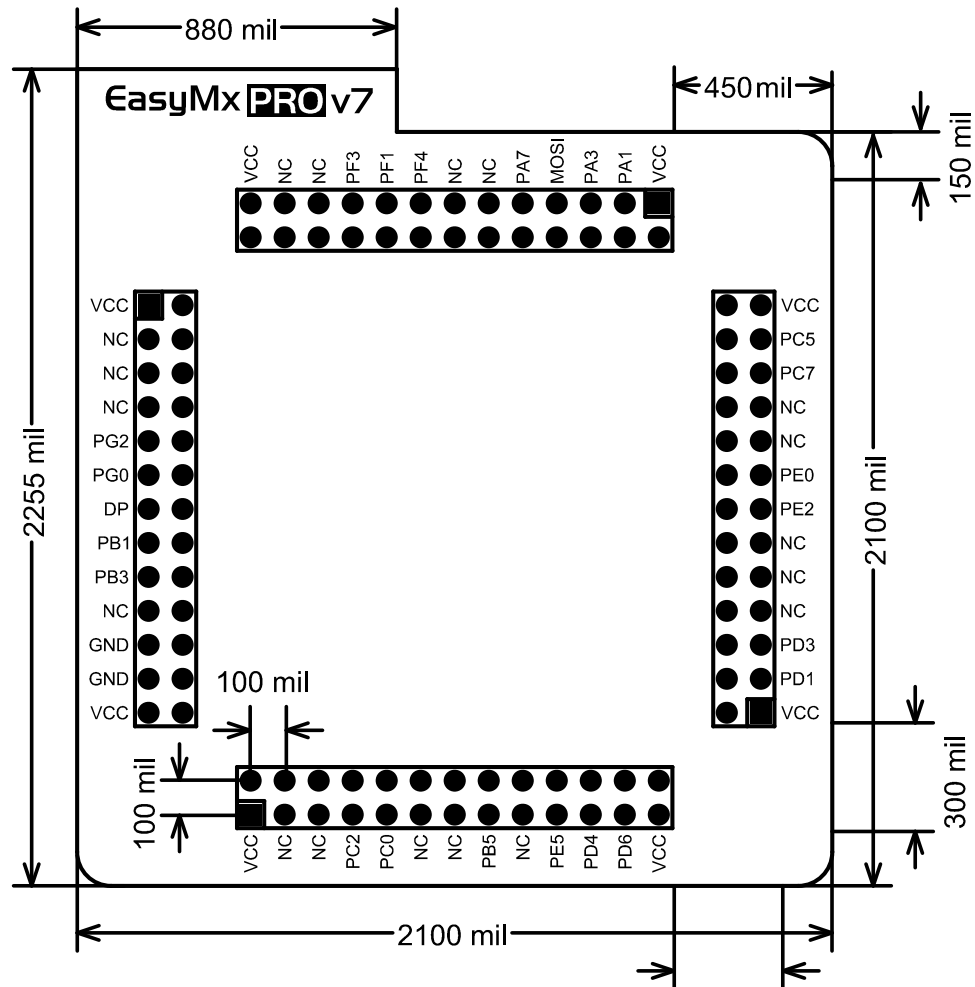
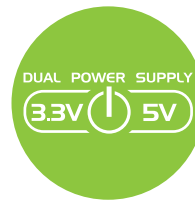
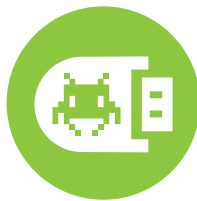


Figure 3: MCU card dimensions. Values are in mils.



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