MIKROE MCU CARD 2 for PIC PIC18F85K22 Board User Guide

Contents

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Specifications

Type	Architecture	MCU Memory (KB)	Silicon Vendor	Pin count	RAM (Bytes)	Supply Voltage
MCU CARD 2 for PIC PIC 18F85K22	8th Generation PIC (8-bit)	32	Microchip	80	20480	3.3V,5V

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Product Information

The MCU CARD 2 for PIC PIC18F85K22 is a microcontroller unit card designed for use with PIC microcontrollers. It utilizes the 8th Generation PIC architecture, providing 32KB of MCU memory. Manufactured by Microchip, this MCU card features 80 pins and includes 20480 bytes of RAM. It operates at a supply voltage of 3.3V or 5V.

PID: MIKROE-4030
MCU Card is a standardized add-on board, which allows very simple installation and replacement of the microcontroller unit (MCU) on a development board equipped with the MCU Card socket. By introducing the new MCU Card standard, we have ensured the absolute compatibility between the development board and any of the supported MCUs, regardless of their pin number and compatibility. MCU Cards are equipped with two 168-pin mezzanine connectors, allowing them to support even MCUs with extremely high pin count. Their clever design allows very simple usage, following the well-established plug & play concept of the Click board™ line of product.

Product Usage Instructions

Step 1: Hardware Setup
Before using the MCU CARD 2, ensure that you have the necessary hardware setup in place:

- Connect the MCU CARD 2 to your development board or target system using the appropriate interface connectors.
- Ensure that the power supply is connected and provides a stable voltage within the specified range (3.3V or 5V).

Step 2: Software Configuration
To start using the MCU CARD 2, follow these software configuration steps:

1. Download and install the necessary software development tools compatible with the PIC18F85K22 microcontroller.
2. Refer to the MCU CARD 2 user manual for specific instructions on configuring the software environment.
3. Ensure that you have the appropriate device drivers installed for communication between your computer and the MCU CARD 2.

Step 3: Programming the MCU

Once the hardware and software setup is complete, you can proceed to program the MCU CARD 2:

1. Write or import your desired code into the software development environment.
2. Compile and build your code to generate the firmware file.
3. Connect your computer to the MCU CARD 2 using the appropriate programming interface.
4. Use the software development tools to program the firmware onto the MCU CARD 2.

Step 4: Testing and Operation
After programming the MCU CARD 2, you can test and operate your application:

- Connect any necessary peripherals or external components to the MCU CARD 2, as required by your application.
- Power on the system and observe the behavior of your application.
- If necessary, debug any issues or make adjustments to your code and repeat the programming process.

Step 5: Maintenance
To ensure proper maintenance of the MCU CARD 2, follow these guidelines:

- Avoid exposing the MCU CARD 2 to excessive moisture, heat, or physical damage.
- Regularly inspect the connectors and pins for any signs of corrosion or damage.
- Keep the MCU CARD 2 firmware up to date by periodically checking for software updates from Microchip.

Mikroe produces entire development toolchains for all major microcontroller architectures. Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.

- **ISO 27001:** 2013 certification of informational security management system.
- **ISO 14001:** 2015 certification of environmental management system.
- **OHSAS 18001:** 2008 certification of occupational health and safety management system.
- **ISO 9001:** 2015 certification of quality management system (AMS).

Downloads
MCU Card Flyer
PIC18F85K22 Datasheet
SiBRAIN for PIC18F85K22 schematic

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FAQ

Q: Where can I download the MCU CARD 2 flyer?
A: You can download the MCU CARD 2 flyer from the **here**.

Q: Where can I find the PIC18F85K22 datasheet?
A: The PIC18F85K22 datasheet can be downloaded from **here**.

Q: Where can I find the SiBRAIN for PIC18F85K22 schematic?
A: The SiBRAIN for PIC18F85K22 schematic can be downloaded from **here**.

Documents / Resources

	**MIKROE MCU CARD 2 for PIC PIC18F85K22 Board** [pdf] User Guide MCU CARD 2 for PIC PIC18F85K22 Board, MCU CARD 2, for PIC PIC18F85K22 Board, PIC18 F85K22 Board, Board

References

- TCPDF
- User Manual