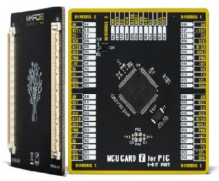
MIKROE PIC18F86J50 MCU Card



MIKROE PIC18F86J50 MCU Card Owner's Manual

Contents

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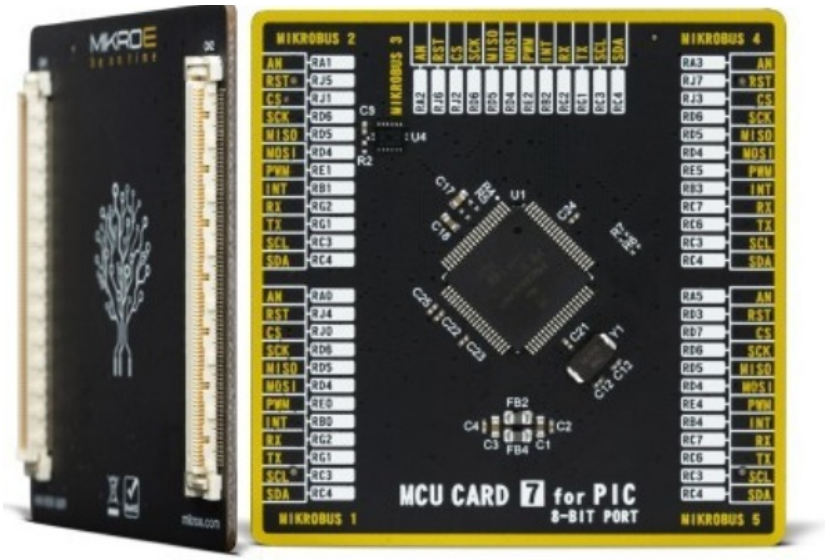

INTRODUCTION

PID: MIKROE-4040

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 absolute compatibility between the development board and any of the supported MCUs, regardless of their PIN 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-and-play concept of the Click board™ line of products.

Specifications

Type	8th Generation
Architecture	PIC (8-bit)
MCU Memory (KB)	64
Silicon Vendor	Microchip
Pin count	80
RAM (Bytes)	4096
Supply Voltage	3.3V

Downloads

MCU Card Flyer

Mikroe produces entire development toolchains for all major microcontroller architectures. Committed to excellence, 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).

Product Usage Instructions

Installation

1. Ensure that your development board or system is powered off.
2. Locate the MCU Card slot on your device.
3. Align the MCU Card connectors with the slot and gently push it in until fully seated.

4. Power on your device and proceed with programming or interfacing with the MCU Card.

Programming

1. Connect the necessary programming hardware or tools to the MCU Card.
2. Launch your preferred Integrated Development Environment (IDE) for PIC programming.
3. Load your project code into the IDE and select the appropriate settings for the PIC18F86J50 MCU.
4. Initiate the programming process to flash the code onto the MCU Card.

Testing and Troubleshooting

1. After programming, connect the MCU Card to your system and power it on.
2. Verify that the programmed functionality is working as expected.
3. If you encounter any issues, refer to the datasheet or contact technical support for assistance.

Downloads

- MCU Card Flyer
- PIC18F86J50 Datasheet
- SiBRAIN for PIC18F86J50 schematic

FAQ

Q: How do I update the firmware on the MCU Card?

A: To update the firmware on the MCU Card, follow these steps:

1. Obtain the latest firmware update file from the manufacturer's website.
2. Connect the MCU Card to your computer using a suitable programming tool.
3. Use the provided software utility to load and flash the new firmware onto the MCU Card.
4. After successful flashing, disconnect the MCU Card and test its functionality.

Q: What is the recommended operating temperature for the MCU Card?
A: The recommended operating temperature range for the MCU Card is between -40°C to +85°C.

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Documents / Resources

	MIKROE PIC18F86J50 MCU Card [pdf] Owner's Manual PIC18F86J50 MCU Card, PIC18F86J50, MCU Card, Card

References

- TCPDF
- Empowering Innovation | Microchip Technology
- User Manual