
Radxa CM3I IO Board

an Application Board for Radxa CM3I

Revision 1.0

2023-06-20



Contents

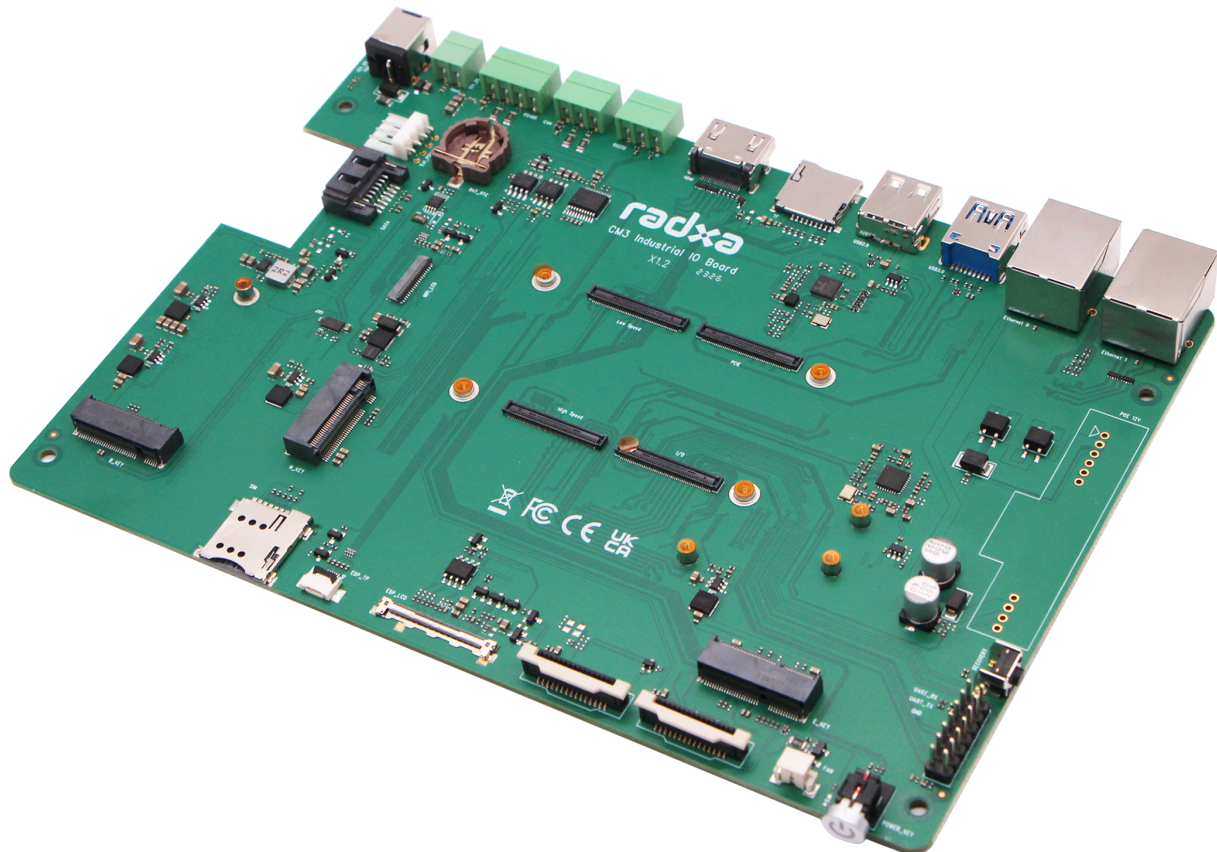
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1 Revision Control Table

Version	Date	Changes from previous version
1.0	20/06/2023	First version

2 Introduction

The Radxa CM3I IO Board is designed specifically for the Radxa CM3I(Radxa Compute Module 3 Industrial) and is intended to provide a comprehensive validation of the Radxa CM3I functionality. With the Radxa CM3I IO Board, developers can easily verify the processing power, storage expansion, multimedia support and functionality of the various interfaces of the Radxa CM3I.



3 Features

3.1 Interfaces

- 1x Power Button: Powers the IO Board conveniently.
- 1x Fan Seat: Connects a fan for efficient cooling.
- 2x MIPI CSI: Connects MIPI CSI cameras for image and video capture.
- 1x MIPI DSI: Outputs high-definition display for MIPI DSI displays.
- 1x eDP: Supports display and touch functionality.
- 1x SIM Card Slot: Enables mobile network connectivity with a SIM card.
- 1x M.2 M Key: Supports storage devices like SSDs.
- 1x M.2 B Key: Supports 4G/5G mobile networks (with SIM card).
- 1x M.2 E Key: Supports wireless modules such as WiFi and BT.
- 1x SATA Interface: Connects SATA devices like hard drives or SSDs.
- 4x Pins External Power Interface: Provides power input for the board.
- 1x RTC Seat: Accommodates an RTC battery for real-time clock functionality.
- 2x Gigabit Ethernet Ports: Provides high-speed network connectivity for data transfer.
- 1x USB 3.0 Interface: Offers a high-speed USB connection for fast data transfer.
- 1x USB 2.0 Interface: Provides a standard USB connection for connecting peripherals.
- 1x TF Card Slot: Allows expandable storage via TF (microSD) cards.
- 1x HDMI Interface: Connects to an HDMI Display for high-definition output.
- 1x RS232 Interface: Facilitates serial communication with connected devices.
- 1x CAN Interface: Enables communication using the CAN bus protocol.
- 1x RS485 Interface: Supports serial communication commonly used in industrial applications.
- 1x 12V DC Interface: Offers a power input option for 12V DC supply.
- 1x 12V DC Pins: Provides a direct 12V power input option.
- 1x PoE Support: Enables Power over Ethernet functionality.
- 14x GPIO Pins: Provides GPIOs for custom connectivity and control.

4 Mechanical Specification

5 Availability

Radxa guarantees availability of the Radxa CM3I IO Board until at least September 2033.

6 Support

For support please see the hardware documentation section of the [Radxa Wiki](#) website and post questions to the [Radxa forum](#).