

Renesas RA Family

FPB-RA2E1 Fast Prototyping Board

1. Introduction

The FPB-RA2E1 Fast Prototyping Board provides an entry point for evaluation, prototyping and development with the RA2E1 MCU. Moreover, since this board incorporates an emulator circuit, you can use it for designing your own applications without needing to make further investments in tools. This product includes through-holes for pin headers that allow access to all MCU signal pins, allowing easy prototyping with a breadboard.

2. Package Contents

- FPB-RA2E1 Fast Prototyping Board (RTK7FPA2E1S00001BE)
- Quick Start Guide (this document)

3. Board Specifications

Item	Specification
Evaluation MCU	Part No: R7FA2E1A92DFM; package: 64-pin LQFP
	On-chip memory: 128-KB ROM, 16-KB RAM, 4-KB data flash memory
Board size	Size: 53 mm × 85 mm; thickness: 1.6 mm
Power-supply voltage	VCC: 3.3 V to 5.5 V. MCU operation voltage range 1.6 V to 5.5 V.
Power-supply circuit	USB connector: VBUS (5 V input); VBUS is converted to 3.3 V by LDO.
	2-pin external power-supply header*1
Push switch	Reset switch x 1; user switch x 1
LED	Power indicator: green x 1, user: green x 2, ACT LED: green x 1
USB connector	Connector: Micro USB Type-B
Pmod™ connector	Connector: Angle type, 12 pins x 2
Arduino™ connector	Connector: 6 pins x 1, 8 pins x 2, 10 pins x 1
	The interface is compatible with Arduino™ UNO R3.
MCU header*1	Header: 32 pins x 2

*1 This part is not mounted

4. Board Layout

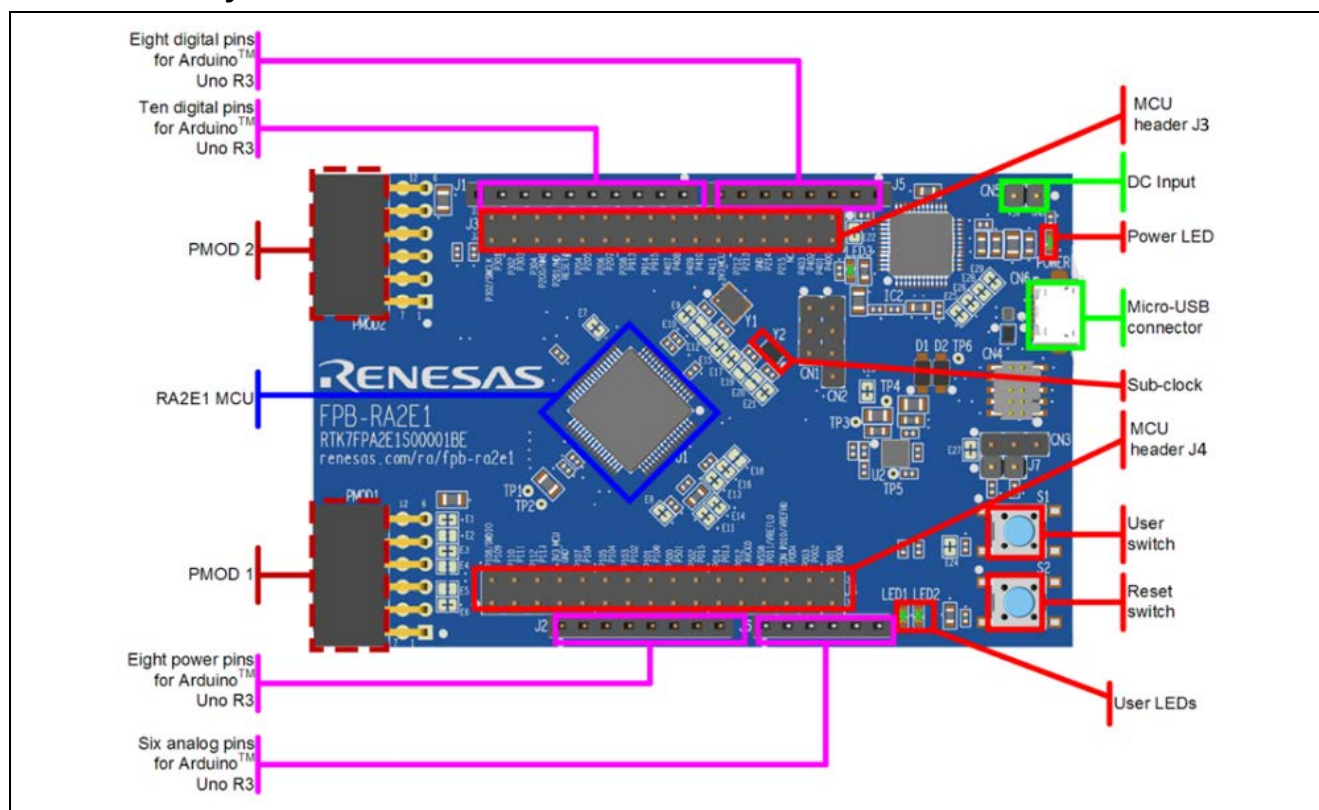


Figure 1. FPB-RA2E1 Board Layout

