

Renesas RA Family

FPB-RA0E2 Fast Prototyping Board

1. Introduction

The FPB-RA0E2 Fast Prototyping Board provides an entry point for evaluation, prototyping and development with the RA0E2 MCU. Moreover, since this board incorporates an emulator circuit, you can use it for designing your own applications without the need 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 the use of a breadboard.

2. Package Contents

- FPB-RA0E2 Fast Prototyping Board (RTK7FPA0E2S00001BJ)
- Quick Start Guide (this document)
- USB 2.0 Type-C™ cable (Type-C male to Type-C male)
- Information on China RoHS

3. Board Specifications

Item	Specification
Evaluation MCU	Part No: R7FA0E2094CFM; package: 64-pin LQFP
	On-chip memory: 128-KB ROM, 16-KB SRAM, 2-KB data flash memory
Board size	Size: 55.88 mm × 85.00 mm; thickness: 11.65 mm
Power-supply voltage	Board supply: 5 V, VCC: 3.3 V, MCU operating-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 switches	Reset switch x 1; user switch x 1
LEDs	Power indicator: green x 1, user: green x 2, on-board debugger ACT LED: yellow x 1
USB connector	Connector: USB 2.0 Type-C™
Pmod™ connectors	Connectors: angle type, 12 pins x 2
Arduino® connectors	Connectors: 6 pins x 1, 8 pins x 2, 10 pins x 1
	The interfaces are compatible with Arduino UNO R3.
Breakout Pin Header*1	Headers: (16 pins x 2) x 2
Debugger	J-Link OB, Connector: 10 pins Cortex® Debug connector

*1 This part is not mounted.

4. Board Layout

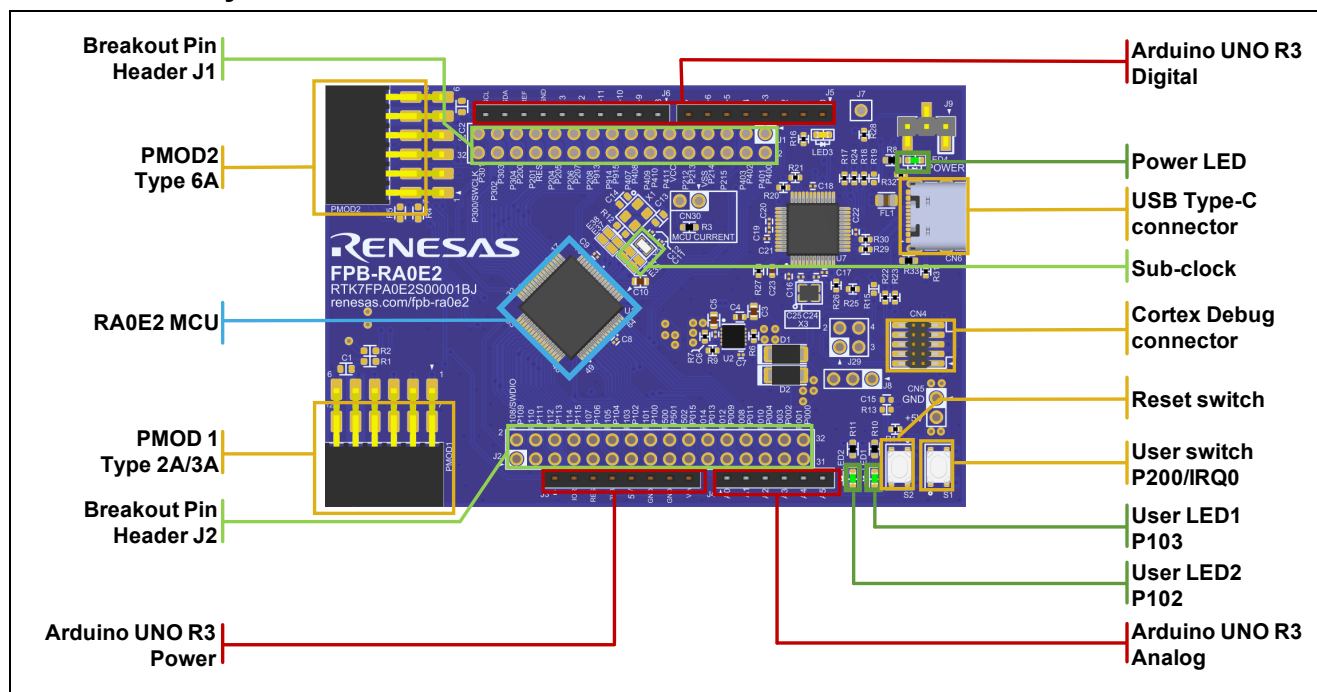


Figure 1. FPB-RA0E2 Board Layout

