

RENESAS FPB-RA0E1 Fast Prototyping Board User Guide

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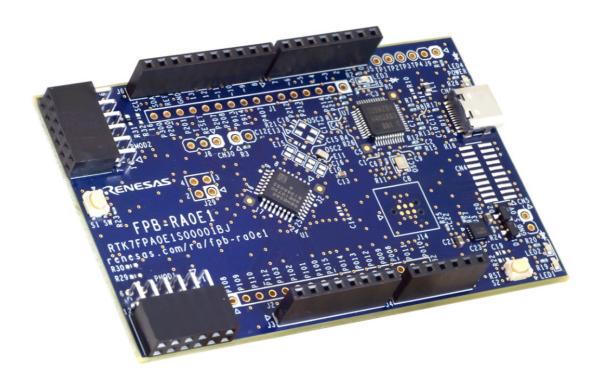


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RENESAS FPB-RA0E1 Fast Prototyping Board



Introduction

The FPB-RA0E1 Fast Prototyping Board provides an entry point for evaluation, prototyping and development with the RA0E1 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.

Package Contents

- FPB-RA0E1 Fast Prototyping Board (RTK7FPA0E1S00001BJ)
- Quick Start Guide (this document)
- USB cable (type-A male to type-C male)
- Information on China RoHS

Board Specifications

Item	Specification
Evaluation MCU	Part No: R7FA0E1073CFJ; package: 32-pin LQFP
	On-chip memory: 64-KB ROM, 12-KB SRAM, 1-KB data flash memory
Board size	Size: 53 mm × 85 mm; thickness: 11.5 mm
Power-supply voltag e	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 Type-C
Pmod [™] connectors	Connectors: angle type, 12 pins x 2
Arduino™ connector s	Connectors: 6 pins x 1, 8 pins x 2, 10 pins x 1
	The interfaces are compatible with Arduino™ UNO R3.
MCU headers*1	Headers: 16 pins x 2
Emulator	J-Link on-board programmer/debugger

^{*1} This part is not mounted.

Board Layout

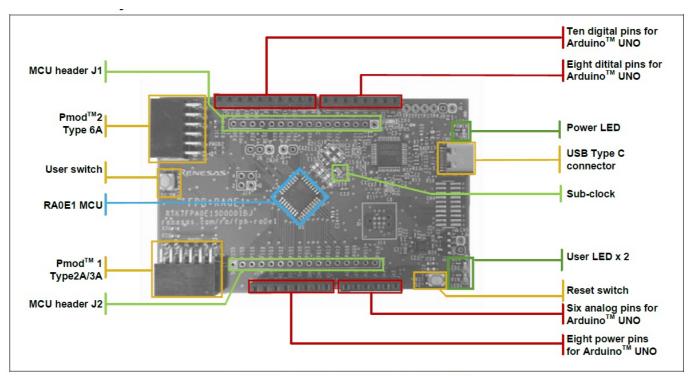


Figure 1. FPB-RA0E1 Board Layout

Arduino Interface

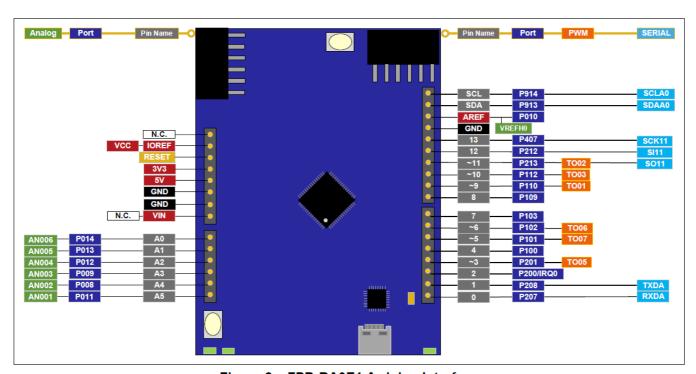


Figure 2. FPB-RA0E1 Arduino Interface

Pmod Interface

The FPB-RA0E1 Fast Prototyping Board has two Pmod connectors. Pmod1 supports Type 2A or 3A and can also be configured for Type 6A interfaces. Pmod2 supports Type 6A and can also be configured for Type 2A or 3A.

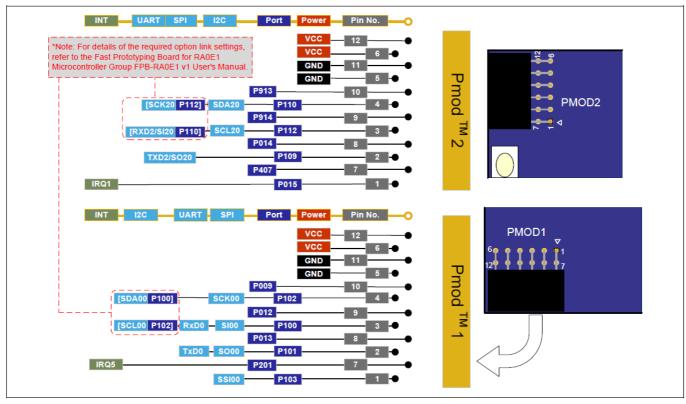


Figure 3. FPB-RA0E1 Pmod Interface

Note on Using the Board

Before using this board, download the user's manual from the website at <u>renesas.com/ra/fpb-ra0e1</u> and check the full specifications.

Tutorial for Blinky:

RA Flexible Software Package Documentation: Starting Development (renesas.github.io)



Documents / Resources



RENESAS FPB-RA0E1 Fast Prototyping Board [pdf] User Guide

FPB-RA0E1, FPB-RA0E1 Fast Prototyping Board, FPB-RA0E1, Fast Prototyping Board, Prototyping Board, Board

References

- FPB-RA0E1 RA0E1 Fast Prototyping Board | Renesas
- FPB-RA0E1 RA0E1 Fast Prototyping Board | Renesas
- User Manual

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