

Renesas RL78 Family

RL78/F25 Fast Prototyping Board

Introduction:

The RL78/F25 Fast Prototyping Board, Featuring the RL78/F25 MCU, is ideal for various prototype development. It has high flexibility and expandability by supporting Arduino MEGA, Pmod™, Grove interfaces, and through-holes with access to MCU pins.

Renesas also provides an Arduino library that supports creating various programs (sketches) on the Arduino IDE.

1. Check the Full Specification:

renesas.com/fpb-rl78f25

Download the User's manual and Design Package (Schematic, BOM, 3D View, CAD data) from the Web site below and check the full specifications before using the board.



FPB-RL78F25

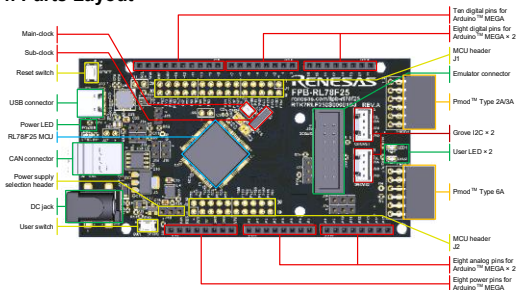
2. Package Contents

- FPB-RL78F25
RL78/F25 Fast Prototyping Board (RTK7RLF250S00001BJ)
- Quick Start Guide (this document)

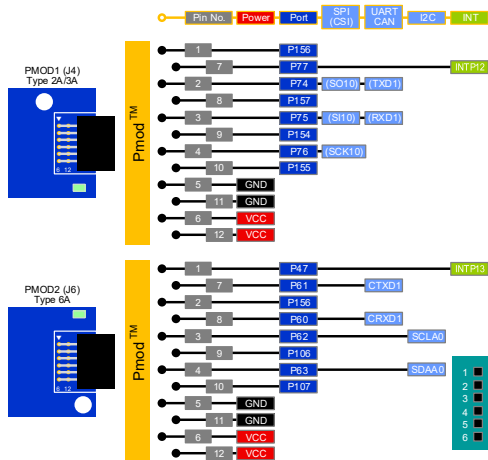
3. Board Specifications

Item	Specification
Evaluation MCU RL78/F25	Part No.: R7F125FPL3AFB; package: 100-pin LQFPF 512-KB ROM, 40-KB RAM, 16-KB data flash memory
Push switches	Reset switch × 1; User switch × 1
LEDs	Power indicator: green × 1, User: green × 2
USB connector	Connector: USB 2.0 Type-C™
Grove connectors	Interface for Grove modules, I ² C × 2
Pmod™ connectors	Connector: angle type, 12 pins × 2
Arduino® connectors	Arduino™ MEGA: 8 pins × 5, 10 pins × 1
CAN connector	Connector: 3-way screwless terminal blocks

4. Parts Layout

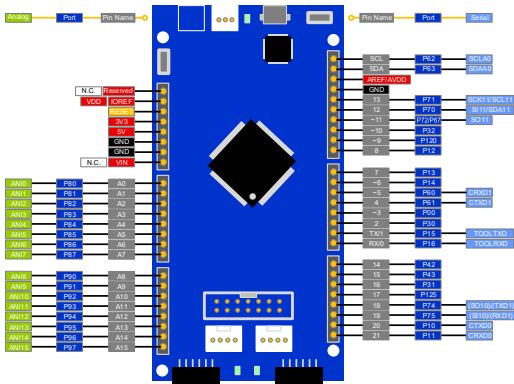


5. Pmod™ interface



*: To use the functions listed in parentheses, change the Peripheral I/O redirection registers (PIORx) from their default settings. For details, refer to RL78/F22, F25 User's Manual: Hardware.

6. Arduino™ interface



*: To use the functions listed in parentheses, change the Peripheral I/O redirection registers (PIORx) from their default settings. For details, refer to RL78/F22, F25 User's Manual: Hardware.

7. Grove interface

GROVE1			GROVE2		
	RL78/F25			RL78/F25	
Pin1	Pin38	P71/SCL11	Pin1	Pin23	P62/SCLA0
Pin2	Pin39	P70/SDA11	Pin2	Pin24	P63/SDAA0
Pin3	-	VDD	Pin3	-	VDD