Manuals+ — User Manuals Simplified.

NXP FRDM-RW612 Development Board User Guide

Quick Start Guide
MCUXpresso developer experience
FRDM-RW612
Development Board
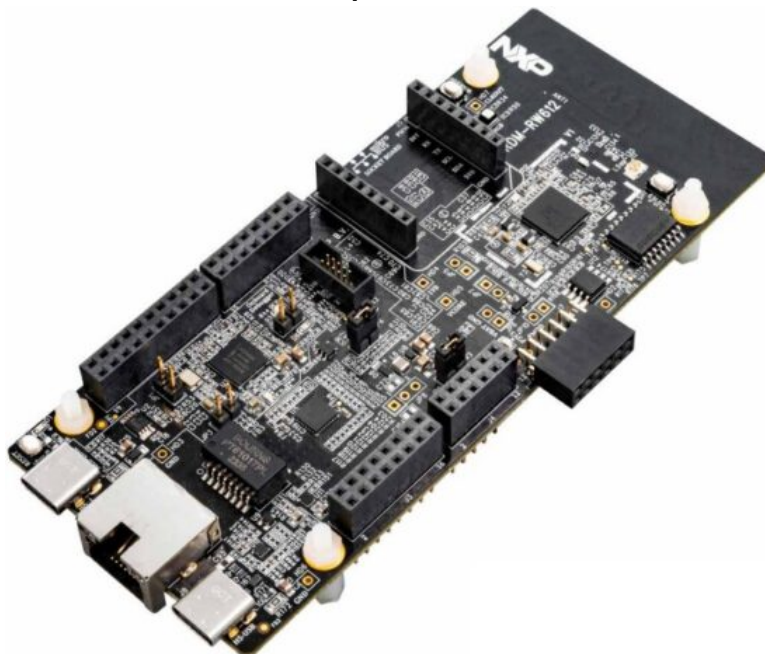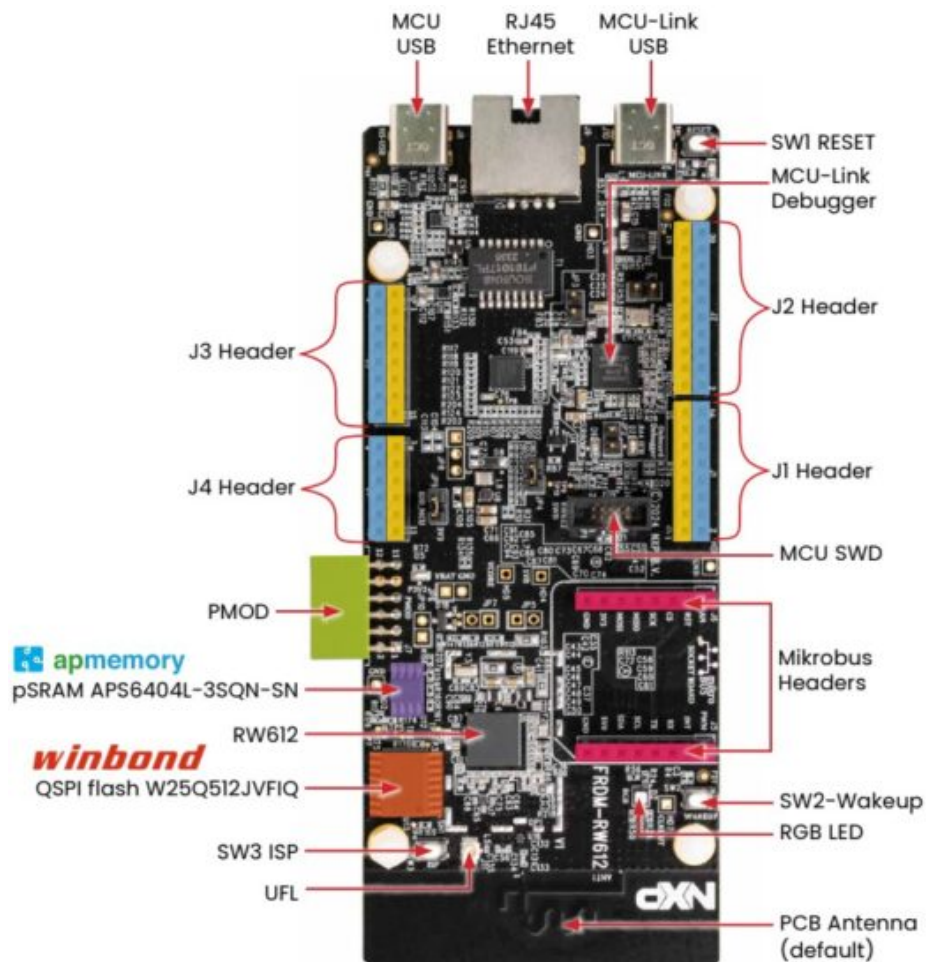

In partnership with

Contents

Get to know the FRDM-RW612 development board
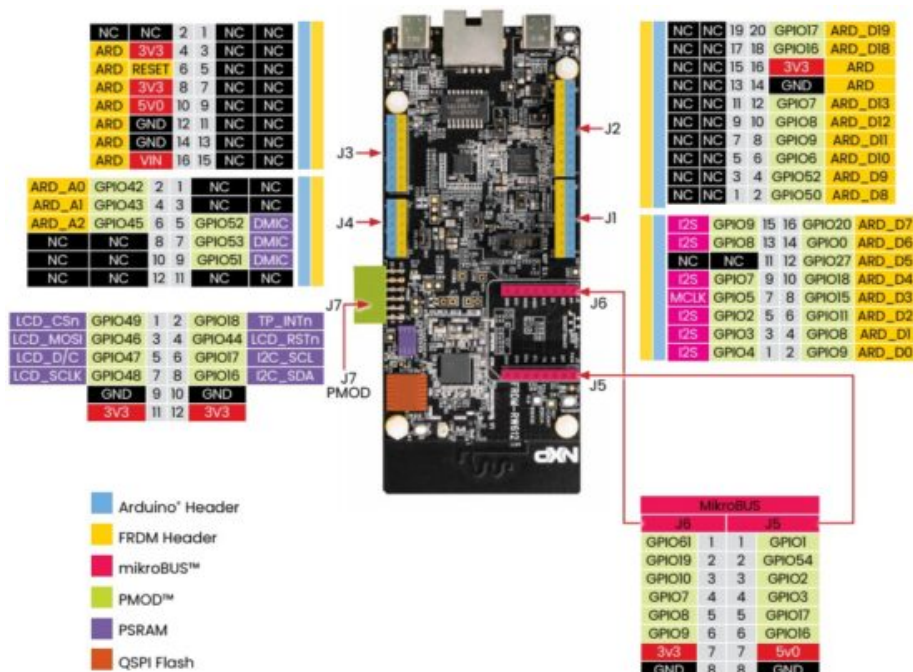
NXP's MCUXpresso
Developer Experience provides you with cost-effective MCU development boards.
Easy I/O access supports expansion board used for fast prototyping and rapid evaluation.
Enjoy your FRDM‑RW612!

■ Arduino® Header

■ FRDM Header

■ mikroBUS™

■ PSRAM

■ PMOD™

■ QSPI Flash

NC	NC	2	1	NC	NC
ARD	3V3	4	3	NC	NC
ARD	RESET	6	5	NC	NC
ARD	3V3	8	7	NC	NC
ARD	5V0	10	9	NC	NC
ARD	GND	12	11	NC	NC
ARD	GND	14	13	NC	NC
ARD	VIN	16	15	NC	NC

J3

ARD_A0	GPIO42	2	1	NC	NC
ARD_A1	GPIO43	4	3	NC	NC
ARD_A2	GPIO45	6	5	GPIO52	DMIC
NC	NC	8	7	GPIO53	DMIC
NC	NC	10	9	GPIO51	DMIC
NC	NC	12	11	NC	NC

J4

LCD_CSn	GPIO49	1	2	GPIO18	TP_INTn
LCD_MOSI	GPIO46	3	4	GPIO44	LCD_RSTn
LCD_D/C	GPIO47	5	6	GPIO17	I2C_SCL
LCD_SCLK	GPIO48	7	8	GPIO16	I2C_SDA
GND		9	10	GND	
3V3		11	12	3V3	

J7 PMOD

NC	NC	19	20	GPIO17	ARD_D19
NC	NC	17	18	GPIO16	ARD_D18
NC	NC	15	16	3V3	ARD
NC	NC	13	14	GND	ARD
NC	NC	11	12	GPIO7	ARD_D13
NC	NC	9	10	GPIO8	ARD_D12
NC	NC	7	8	GPIO9	ARD_D11
NC	NC	5	6	GPIO6	ARD_D10
NC	NC	3	4	GPIO52	ARD_D9
NC	NC	1	2	GPIO50	ARD_D8

J2

I2S	GPIO9	15	16	GPIO20	ARD_D7
I2S	GPIO8	13	14	GPIO0	ARD_D6
NC	NC	11	12	GPIO27	ARD_D5
I2S	GPIO7	9	10	GPIO18	ARD_D4
MCLK	GPIO5	7	8	GPIO15	ARD_D3
I2S	GPIO2	5	6	GPIO11	ARD_D2
I2S	GPIO3	3	4	GPIO8	ARD_D1
I2S	GPIO4	1	2	GPIO9	ARD_D0

J1

MikroBUS

J6			J5	
GPIO61	1	1	GPIO1	
GPIO19	2	2	GPIO54	
GPIO10	3	3	GPIO2	
GPIO7	4	4	GPIO3	
GPIO8	5	5	GPIO17	
GPIO9	6	6	GPIO16	
3v3	7	7	5v0	
GND	8	8	GND	

Legend:
- Arduino® Header
- FRDM Header
- mikroBUS™
- PMOD™
- PSRAM
- QSPI Flash

How to get started

Setup

1. Connect the FRDM-RW612 board to a PC using the USB Type-C® cable.
2. The board comes preprogrammed with a Wi-Fi CLI Demo.
3. Get started at **nxp.com/FRDM-RW612/start**.

Software and expansion boards

4. Use different headers to connect LCD, sensors, Arduino shields, and more.
5. Access software and tools through our MCUXpresso Developer Experience **nxp.com/MCUXpresso**

   – Expansion Board Hub **mcuxpresso.nxp.com/eb-hub** to find add-on boards from NXP and our partners with related MCUXpresso SDK-compatible drivers and examples

   – Application Code Hub **mcuxpresso.nxp.com/appcodehub** to browse application code examples from our experts to help kick start your project

Support
Visit **www.nxp.com/support**

Documents / Resources

	NXP FRDM-RW612 Development Board [pdf] User Guide MCX, MCX C, FRDM-RW612 Development Board, FRDM-RW612, Development Board, Board

References

- **Application Code Hub**
- **NXP Expansion Board Hub**
- **Support | NXP Semiconductors**
- **User Manual**