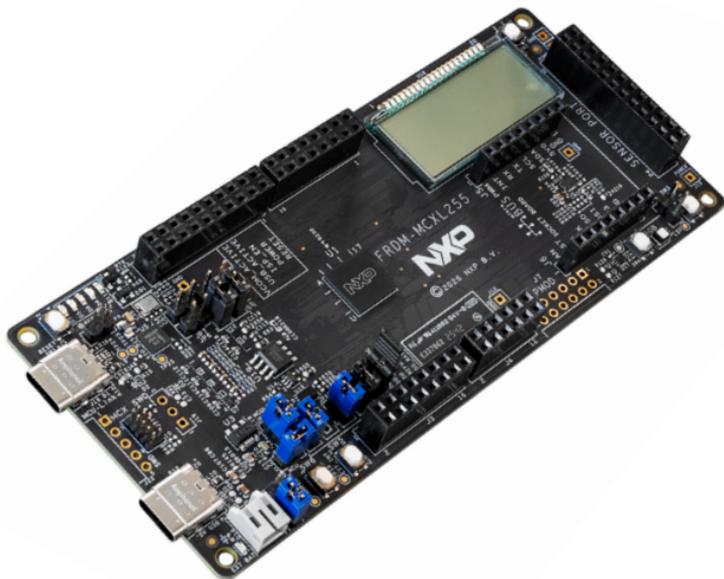
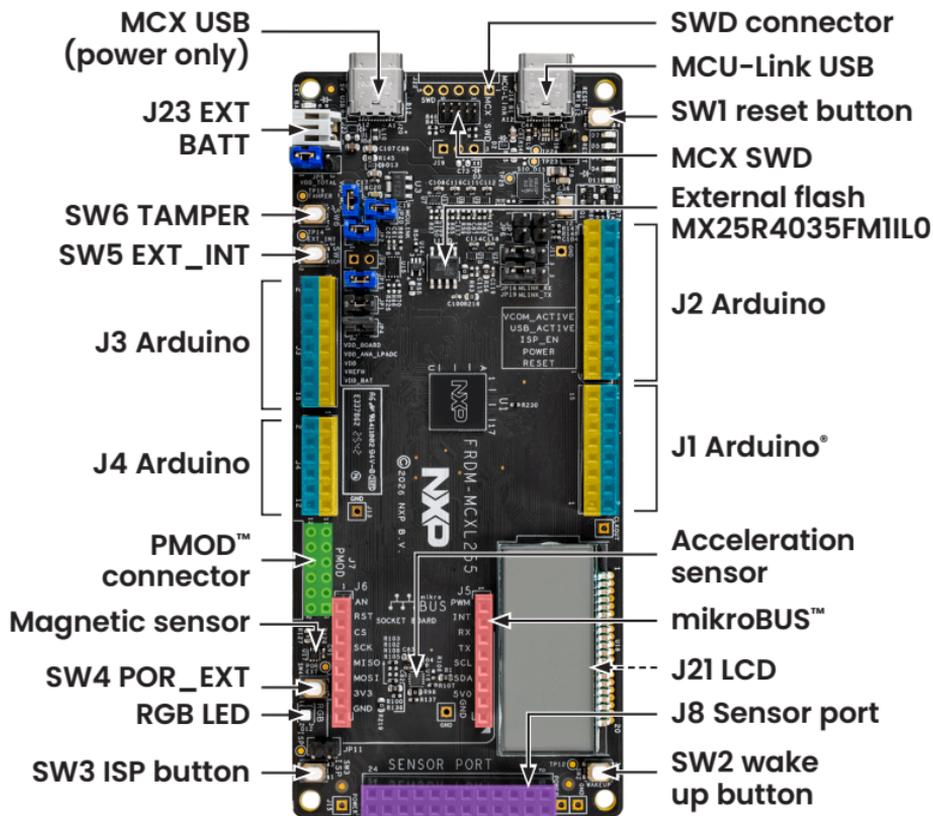




Quick Start Guide  
FRDM-MCXL255

# FRDM-MCXL255 development platform





- Arduino header
- FRDM header
- mikroBUS header
- Pmod
- Sensor port
- LCD header (bottom side of LCD)

# Get to know the FRDM-MCXL255 development board

NXP's MCUXpresso Developer Experience provides you with cost-effective MCU development boards.

Easy I/O access supports expansion board use for fast prototyping and rapid evaluation.

## Getting started

1. Connect the FRDM-MCXL255 board to a PC using the USB Type-C cable
2. The board comes preprogrammed with a blinky LED demo
3. Get started at [nxp.com/FRDM-MCXL255](https://www.nxp.com/FRDM-MCXL255)



## Software and expansion boards

4. Use different headers to connect sensors, Arduino shields and more
5. Access software and tools through [nxp.com/MCUXpresso](https://www.nxp.com/MCUXpresso)
  - Expansion Board Hub [mcuxpresso.nxp.com/eb-hub](https://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](https://mcuxpresso.nxp.com/appcodehub) to browse application code examples from our experts to help kick start your project

## J3/J4 Arduino headers and FRDM headers



J3	NC	NC	2	1	P0_3	GPIO
	ARD	VDD_BOARD	4	3	P0_10	GPIO
	ARD	MCU_RESET_B	6	5	P0_12	GPIO
	ARD	VDD_BOARD	8	7	P0_13	GPIO
	ARD	P5V	10	9	P2_6	GPIO
	ARD	GND	12	11	P2_18	GPIO
	ARD	GND	14	13	P1_18	GPIO
	ARD	P5-9V_VIN	16	15	P1_19	GPIO

J4	ARD_A0	P2_17	2	1	P2_2	GPIO
	ARD_A1	P2_18	4	3	P2_3	GPIO
	ARD_A2	P2_26	6	5	P3_3	GPIO
	ARD_A3	P3_4	8	7	P2_26	GPIO
	ARD_A4	P3_1	10	9	P2_0	GPIO
	ARD_A5	P3_0	12	11	P3_9	GPIO

■ Arduino header

■ FRDM header

## J2/J1 Arduino headers and FRDM headers



J2	GPIO P3_8	19	20	P3_10	ARD_D19
	GPIO P2_3	17	18	P3_11	ARD_D18
	GPIO P2_2	15	16	VDD_ANA_MCU	ARD
	GPIO P1_8	13	14	GND	ARD
	GPIO P2_22	11	12	P1_18	ARD_D13
	GPIO P0_12	9	10	P1_19	ARD_D12
	GPIO P0_13	7	8	P1_17	ARD_D11
	GPIO P2_1	5	6	P1_20	ARD_D10
	GPIO P2_0	3	4	P1_7	ARD_D9
	GPIO P3_9	1	2	P1_6	ARD_D8
J1	GPIO P2_23	15	16	P1_1	ARD_D7
	GPIO P1_9	13	14	P1_5	ARD_D6
	GPIO P0_1	11	12	P2_14	ARD_D5
	GPIO P3_11	9	10	P3_3	ARD_D4
	GPIO P3_4	7	8	P3_8	ARD_D3
	GPIO P2_18	5	6	P1_4	ARD_D2
	GPIO P2_1	3	4	P2_6	ARD_D1
	GPIO P2_8	1	2	P3_4	ARD_D0

■ Arduino header

■ FRDM header

## Pmod and mikroBUS



J7 Pmod	VCC	VDD_BOARD	12	11	VDD_BOARD	VCC
	GND	GND	10	9	GND	GND
	I2C_SDA	P3_11	8	7	P1_9	SPI_SCK
	I2C_SCL	P3_10	6	5	P1_6	SPI_MISO
	RESET	P2_17	4	3	P1_8	SPI_MOSI
	INT	P1_5	2	1	P1_1	SPI_CS

		J6 J5				
mikroBUS	ADC	P3_9	1	1	P2_14	PWM
	RESET	P2_15	2	2	P1_4	INTR
	SPI_CS	P2_3	3	3	P2_8	UART_RX
	SPI_SCK	P2_1	4	4	P2_9	UART_TX
	SPI_MISO	P2_2	5	5	P3_12	I2C_SCL
	SPI_MOSI	P2_0	6	6	P3_13	I2C_SDA
	3V3	VDD_BOARD	7	7	P5V	5V
	GND	GND	8	8	GND	GND

■ Pmod

■ mikroBUS

## J8 Sensor port and LCD header



J8 Sensor port	GND	1	2	VDD_BOARD
	P0_8	3	4	P0_3
	P0_13	5	6	GND
	P0_12	7	8	P0_2
	P0_7	9	10	GND
	P0_6	11	12	P0_1
	P0_0	13	14	GND
	GND	15	16	P0_10
	P0_17	17	18	P0_11
	P0_16	19	20	P0_9
	P0_4	21	22	P0_14
P0_5	23	24	P0_15	

J21 LCD	P3_14	1	2	P1_21
	P1_22	3	4	P2_7
	P1_12	5	6	P1_13
	P1_19	7	8	P2_20
	P3_5	9	10	P3_6
	P3_7	11	12	P3_15
	P2_21	13	14	P1_0
	P2_13	15	16	P1_10
	P1_11	17	18	P2_4
	P2_5	19	20	P2_16

Sensor port
  LCD header (bottom side of LCD)



## Get started

Download installation software and documentation under “Jump Start Your Design” at [nxp.com/FRDM-MCXL255](https://nxp.com/FRDM-MCXL255)

## Support

Visit [nxp.com/support](https://nxp.com/support) for a list of phone numbers within your region.

## Warranty

Visit [nxp.com/warranty](https://nxp.com/warranty) for complete warranty information.

## Home page

Visit [nxp.com/FRDM-MCXL255](https://nxp.com/FRDM-MCXL255) for more information.

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