



Quick Start Guide  
MCUXpresso Developer Experience

# FRDM-MCXN236 DEVELOPMENT BOARD



In partnership with:

***winbond***

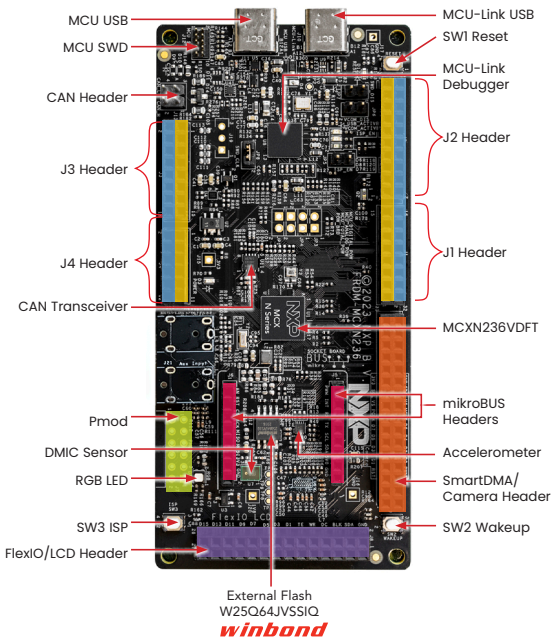
## Get to know the FRDM-MCXN236 development board

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.

Enjoy your FRDM-MCXN236!

- Arduino® Header
- FRDM Header
- mikroBUS™
- Pmod™
- FlexIO/LCD Header
- SmartDMA/Camera Header



# Quick Start Guide FRDM-MCXXN236

ARD	NC	2	1	P4_13	MC
ARD	P3V3	4	3	P4_21	MC
ARD	RESET	6	5	P3_17	MC
ARD	P3V3	8	7	P3_16	MC
ARD	P5V0	10	9	P3_15	MC
ARD	GND	12	11	P3_14	MC
ARD	GND	14	13	P2_7	MC
ARD	VIN	16	15	P3_12	MC

ARD_A0	P4_6	2	1	P3V3	DMIC
ARD_A1	P4_15	4	3	GND	DMIC
ARD_A2	P4_16	6	5	P0_18	DMIC
ARD_A3	P4_17	8	7	P0_16	DMIC
ARD_A4	P4_12	10	9	P0_17	DMIC
ARD_A5	P4_13	12	11	P5_7	GPIO

	P3V3	12	11	P3V3	
	GND	10	9	GND	
I2C_SDA	P4_0	8	7	P1_1	SPI_SCK
I2C_SCL	P4_1	6	5	P1_2	SPI_SDI
	P5_4	4	3	P1_0	SPI_SDO
	P5_5	2	1	P1_17	SPI_CS



J6 J8 J5

mikroBUS J6 J5					
P5_3	1	1	P4_18		
P5_2	2	2	P5_6		
P1_16	3	3	P4_3		
P1_1	4	4	P4_2		
P1_2	5	5	P4_1		
P1_0	6	6	P4_0		
P3V3	7	7	P5V0		
GND	8	8	GND		

GPIO	ANA_7	19	20	P1_17	ARD_D19
GPIO	P0_24	17	18	P1_16	ARD_D18
NC	NC	15	16	VDDA	ARD
NC	NC	13	14	GND	ARD
GPIO	P0_25	11	12	P1_1	ARD_D13
MC	P0_22	9	10	P1_2	ARD_D12
MC	P0_26	7	8	P1_0	ARD_D11
MC	P0_27	5	6	P1_3	ARD_D10
MC	P0_28	3	4	P3_14	ARD_D9
MC	P0_29	1	2	P0_23	ARD_D8

SAI	P2_9	15	16	P0_22	ARD_D7
SAI	P1_7	13	14	P3_17	ARD_D6
SAI	P3_17	11	12	P2_7	ARD_D5
SAI	P3_18	9	10	P0_21	ARD_D4
SAI	P3_6	7	8	P3_12	ARD_D3
SAI	P2_8	5	6	P2_0	ARD_D2
MC	P0_0	3	4	P4_2	ARD_D1
SAI	P3_16	1	2	P4_3	ARD_D0

NC	NC	31	32	P0_19	GPIO
NC	NC	29	30	P2_1	GPIO
GPIO	P1_13	27	28	P1_12	GPIO
GPIO	P4_4	25	26	P2_11	GPIO
GPIO	P4_5	23	24	P2_10	GPIO
Camera	P3V3	21	22	GND	Camera
Camera	P4_1	19	20	P4_0	Camera
Camera	P0_4	17	18	P0_5	Camera
Camera	P0_7	15	16	P2_2	Camera
Camera	P1_11	13	14	P1_10	Camera
Camera	P1_9	11	12	P1_8	Camera
Camera	P1_7	9	10	P1_6	Camera
Camera	P1_5	7	8	P1_4	Camera
Camera	P1_19	5	6	P1_18	Camera
GPIO	P1_17	3	4	P1_16	GPIO
GPIO	P1_15	1	2	P1_14	GPIO

Arduino® Header

FRDM Header

mikroBUS™

Pmod™

FlexIO/LCD Header

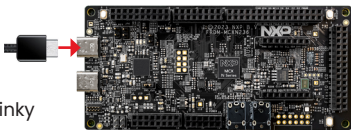
SmartDMA/Camera Header

	LCD_D15	LCD_D13	LCD_D11	LCD_D9	LCD_D7	LCD_D5	LCD_D3	LCD_D1	LCD_TE	LCD_WR	LCD_DC	LCD_BLK	I2C_SDA	LCD
P3_11	P3_9	P3_7	P2_5	P2_3	P3_1	P0_15	P0_21	P4_23	P4_20	P0_24	P4_6	P4_0	GND	
28	26	24	22	20	18	16	14	12	10	8	6	4	2	
27	25	23	21	19	17	15	13	11	9	7	5	3	1	
P3_10	P3_8	P2_6	P2_4	P3_2	P3_0	P0_14	P0_20	P4_19	P4_14	P4_7	P0_23	P4_1	P3V3	
LCD_D14	LCD_D12	LCD_D10	LCD_D8	LCD_D6	LCD_D4	LCD_D2	LCD_D0	LCD_RD	LCD_CS	LCD_RST	LCD_INT	I2C_SCL	LCD	

# How to get started

## SETUP

1. Connect the FRDM-MCXN236 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-MCXN236/start](https://nxp.com/FRDM-MCXN236/start)



## SOFTWARE AND EXPANSION BOARDS

4. Use different headers to connect sensors, Arduino shields and more
5. Access software and tools through our MCUXpresso Developer Experience [nxp.com/MCUXpresso](https://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

## Support

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

[www.nxp.com/FRDM-MCXN236](https://www.nxp.com/FRDM-MCXN236)

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