

NXP FRDM-MCXC242 Development Board User Guide

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NXP FRDM-MCXC242 Development Board

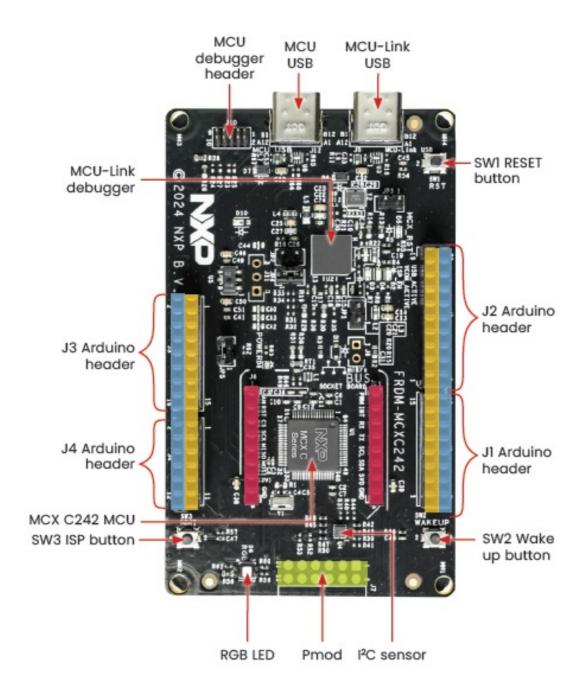


USER GUIDE

MCUXpresso Developer Experience

Get to know the FRDM-MCXC242 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-MCXC242!





Quick Start Guide FRDM-MCXC242

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NC	NC	2	1	PTE0	UART1_TX		NC	NC	19	20	PTI	07
IOREF	P3V3	4	3	PTE1	UART1_RX		NC	NC	17	18	PTD6	ò
RESET	PA20	6	5	NC	NC		NC	PTC3	15	16	AREF	
3V3_OUT	P3V3	8	7	NC	NC		TPM2_CH1	PTB19	13	14	GND	
5V0_OUT	P5V0	10	9	NC	NC		TPM2_CH0	PTB18	11	12	PTC5	
GND	GND	12	11	NC	NC		LPUARTO_TX	PTB17	9	10	PTC7	
GND	GND	14	13	PTC1	I ² C1_SCL		LPUARTO_RX	PTB16	7	8	PTC6	
VIN	P5-9V_VIN	16	15	PTC2	I ² C1_SDA		NMI/ISP	PTA4	5	6	PTC4	
		^				N- MCZCZ-242	I ² C1_SDA	PTC11	3	4	PTA5	
A0	PTE16	2	1	NC	NC		I ² C1_SCL	PTC10	1	2	PTE31	
A1	PTC0	4	3	NC	NC		TPM2_CH0	PTB2	15	16	PTC8	
A2	PTE20	6	5	NC	NC		TPM2_CHI	PTB3	13		PTC9	
A3	PTE21	8	7	NC	NC		TPM0_CH5	PTD5	11	12	PTE24	
A4	PTB1	10	9	NC	NC		TPM0_CH4	PTD4	9	10	PTA13	
A5	PTB0	12	11	NC	NC		TPM0_CH3	PTD3	7	8	PTE25	
VCC	P3V3	12	11	P3V3	VCC		TPM0_CH2	PTD2	5	6	PTA12	
GND	GND	10	9	GND	GND		TPM0_CH1	PTD1	3	4	PTA2	
SDA	PTB1	8	7	PTC5	SCK		TPM0_CH0	PTD0	1	2	PTA1	
SCL	PTB0	6	5	PTC7	SDI					_		
GPIO	PTC9	4	3	PTC6	SDO		AN	PTE16	1	1	PTE25	
GPIO	PTE24	2	1	PTC4	SS		RST	PTE30	2	2	PTA12	
							CS	PTC4	3	3	PTE1	
							SCK	PTC5	4	4	PTE0	
							SDI	PTC7	5	5	PTB0	
							SDO	PTC6	6	6	PTB1	
							3V3	P3V3	7	7	P5V0	
							GND	GND	8	8	GND	



How to get started

Setup

- 1. Connect the FRDM-MCXC242 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-MCXC242/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
- 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



www.nxp.com/FRDM-MCXC242

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Specifications

- MCU-Link debugger
- J3 Arduino header
- MCU debugger header
- MCU USB
- MCU-Link USB
- SW1 RESET button
- · J2 Arduino header
- J4 Arduino header
- MCX C242 MCU SW3 ISP button
- J1 Arduino header SW2 Wake up button
- RGB LED
- Pmod I2C sensor

FAQ

Q: Is the FRDM-MCXC242 board compatible with other NXP development tools?

A: Yes, the FRDM-MCXC242 board is compatible with other NXP development tools that support the same MCU architecture.

Q: Can I use the FRDM-MCXC242 board with Arduino IDE?

A: Yes, you can use the FRDM-MCXC242 board with the Arduino IDE by selecting the appropriate board settings and installing the required libraries.

Q: How do I update the firmware on the FRDM-MCXC242 board?

A: To update the firmware on the FRDM-MCXC242 board, you can follow the instructions provided on the NXP website or use the MCUXpresso tools for firmware updates.

Documents / Resources



NXP FRDM-MCXC242 Development Board [pdf] User Guide

MCX, MCX C, FRDM-MCXC242 Development Board, FRDM-MCXC242, Development Board, B oard

References

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

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