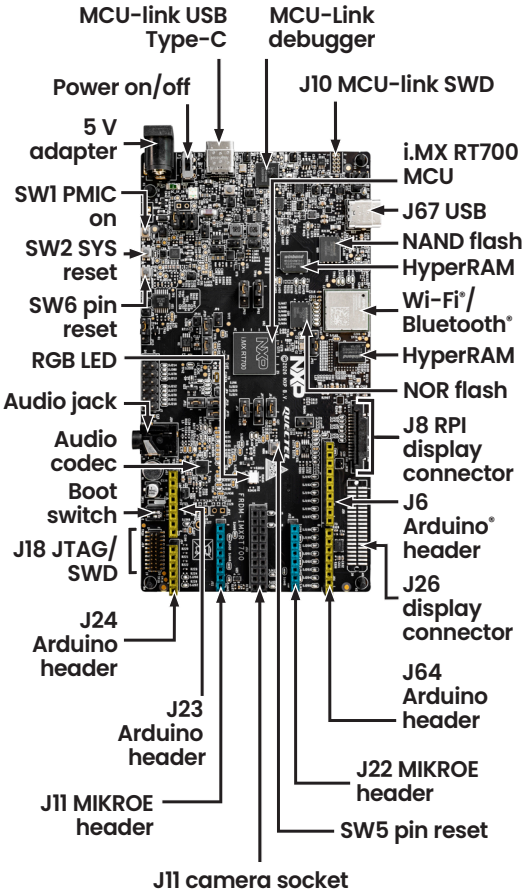
Quick Start Guide
FRDM-IMXRT700

FRDM i.MX RT700 development platform



In partnership with:

winbond



Arduino header MIKROE header

Get to know FRDM-IMXRT700

NXP's FRDM development platform provides you with cost-effective MCU development boards.



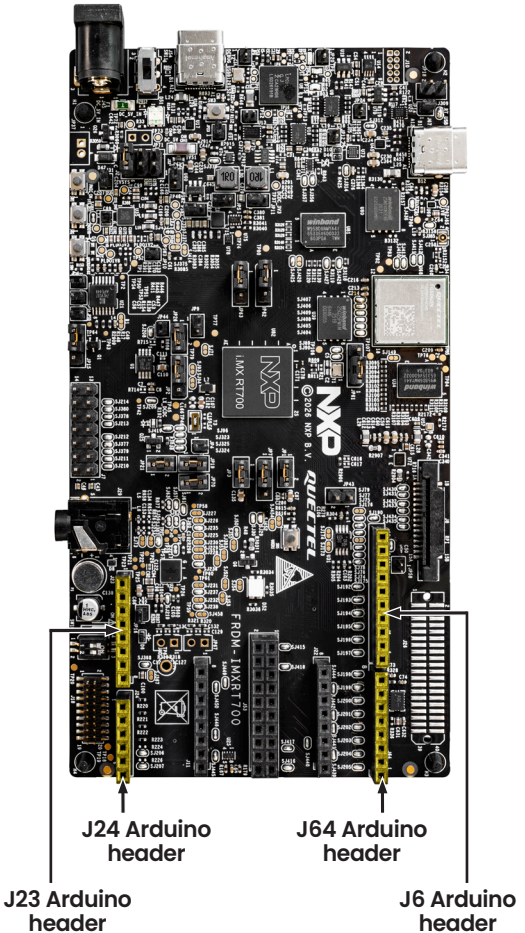
Easy I/O access supports expansion board use for fast prototyping and rapid evaluation.

Getting started

1. Connect the FRDM-IMXRT700 board to a PC using the USB Type-C cable
2. The board comes preprogrammed with a VIT voice-controlled RGB LED demo. Try saying: "Hey NXP, turn on red LED".
3. Get started at **nxp.com/FRDM-IMXRT700/start**

Software and expansion boards

4. Access software and tools through **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
5. Explore our entire FRDM platform of MCUs and MPUs at **nxp.com/FRDM**



Arduino header

J23/J24 Arduino headers

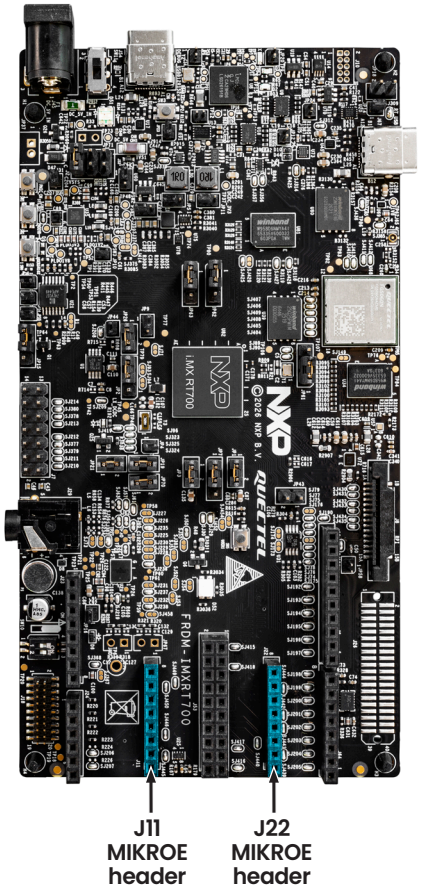
J23	NC	NC	1
	IOREF	MCU_3V3	2
	RESET	TRG_RST	3
	3V3_OUT	MCU_3V3	4
	5V0_OUT	SYS_5V0	5
	GND	GND	6
	GND	GND	7
	VIN	SYS_5V0	8

J24	A0	UNO_P10_0_ADC0_A0	1
	A1	UNO_P10_1_ADC0_B0	2
	A2	UNO_P10_2_ADC0_A1	3
	A3	UNO_P10_3_ADC0_B1	4
	A4	UNO_P0_6_I2C8_SDA_3V3	5
	GND	UNO_P0_7_I2C8_SCL_3V3	6

J6/J64 Arduino headers

J6	D19/SCL	UNO_P0_7_I2C8_SCL_3V3	10
	D18/SDA	UNO_P0_6_I2C8_SDA_3V3	9
	AREF	MCU_3V3	8
	GND	GND	7
	D13/SCK	P2_3_LPSPI1_SCK	6
	D12/SDI	P2_4_LPSPI1_SIN	5
	D11/SDO	P2_2_LPSPI1_SOUT	4
	D10/SS	P2_5_LPSPI1_PCS0	3
	D9/PWM	FXIO_D9	2
	D8	FXIO_D8	1

J64	D7	FXIO_D7	8
	D6/PWM	FXIO_D6	7
	D5/PWM	FXIO_D1	6
	D4/CTS	FXIO_D0	5
	D3/PWM	FXIO_D15	4
	D2/RTS	FXIO_D14	3
	D1/TX	UNO_P8_31_FC20_TXD_3V3	2
	D0/RX	UNO_P8_30_FC20_RXD_3V3	1



J11/J22 MIKEROE header

J11	PWM	FXIO_D15	1
	INT	FXIO_D14	2
	RX	UNO_P8_30_FC20_RXD_3V3	3
	TX	UNO_P8_31_FC20_TXD_3V3	4
	SCL	UNO_P0_7_I2C8_SCL_3V3	5
	SDA	UNO_P0_6_I2C8_SDA_3V3	6
	+5 V	SYS_5V0	7
	GND	GND	8

J22	AN	FXIO_D7	1
	RST	TRG_RST	2
	CS	P2_5_LPSPI1_PCS0	3
	SCK	P2_3_LPSPI1_SCK	4
	MISO	P2_4_LPSPI1_SIN	5
	MOSI	P2_2_LPSPI1_SOUT	6
	+3.3 V	MCU_3V3	7
	GND	GND	8

Get started

Download installation software and documentation documentation under “Jump Start Your Design” at **nxp.com/FRDM-IMXRT700/start**

Support

Visit **nxp.com/support** for a list of phone numbers within your region.

Warranty

Visit **nxp.com/warranty** for complete warranty information.

Home page

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Document Number: FRDM-IMXRT700QSG REV 0 APN: 926-10156