

MIMXRT1170 EVK Board Hardware User's Guide



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Chapter 1

Introduction

This document is a Hardware User's Guide for the IMXRT1170 Evaluation Kit (EVK) based on the NXP Semiconductor i.MX RT1170 Processor. NXP Semiconductor fully supports this board. The User's Guide includes system setup and debugging. It provides detailed information on the overall design and usage of the EVK board from a hardware systems perspective.

1.1 Board overview

This EVK board is platform designed to showcase the most commonly used features of the i.MX RT1170 Processor in a small, low-cost package. The IMXRT1170 EVK board is an entry level development board, which gives developers an option to be familiar with the processor before investing large amount or resources in more specific designs. For the Board Kit contents, refer to [Contents of evaluation kit](#).

[Table 1](#) lists the features of the IMXRT1170 EVK board.

Table 1. Board features

Processor	NXP Processor	MIMXRT1176DVMAA
DRAM Memory	512 MB SDRAM, 200 MHz	W9825G6KH-5I * 2
DC-DC	MPS	MP2143DJ, MP1613GTL
LDO	UNION , AMS	UM1750S-00, UM1550S-28, AMS1117-1.8
Mass Storage	TF Card Slot	
	128 Mbit Quad SPI Flash	
	512 Mbit Oct Flash	
	4 Mbit LP SPI Flash	
	2 Gbit Parallel NAND Flash(DNP)	
Display Interface	MIPI DSI LCD Connector	
Ethernet	10/100 Mbit/s Ethernet Connector. PHY Chip: KSZ8081RNB	
	10/100/1000 Mbit/s Ethernet Connector. PHY Chip: RTL8211FDI-CG	
USB	USB 2.0 OTG Connector * 2	
Audio Connector	3.5 mm Audio Stereo Headphone Jack	
	Board-Mounted Microphone	
	Left & Right Speaker Out Connectors	
	S/PDIF Interface(DNP)	

Table continues on the next page...

Table 1. Board features (continued)

Power Connector	5 V DC-Jack
Debug Connector	JTAG 20-pin Connector (SWD by default)
	OpenSDA with DAP-Link
Sensor	FXOS8700CQ: 6-Axis Encompass (3-Axis Mag, 3-Axis Accel)
Camera	MIPI CSI Interface
CAN	CAN Bus Connector
User Interface Button	ON/OFF, POR Reset, Reset, USER Button
LED Indicator	Power Status, Reset, OpenSDA, USER LED
Expansion Port	Arduino Interface, M.2 interface
PCB	5.1968 inch x 6.1024 inch (13.2 cm x 15.5 cm), 6-layer board

1.2 IMXRT1170 EVK contents

The IMXRT1170 EVK contains the following items:

- IMXRT1170 EVK board
- 5 V power adaptor
- OV5640 MIPI camera module
- USB cable (Micro B)

1.3 IMXRT1170 EVK board revision history

- EVK REVA: Internal use
- EVK REVB: Internal use and Alpha program
- EVK REVC: Internal use, Alpha program and product launch

Chapter 2 Specifications

This chapter provides detailed information about the electrical design and practical considerations of the EVK board. [Figure 1](#) shows the block diagram of the EVK board.

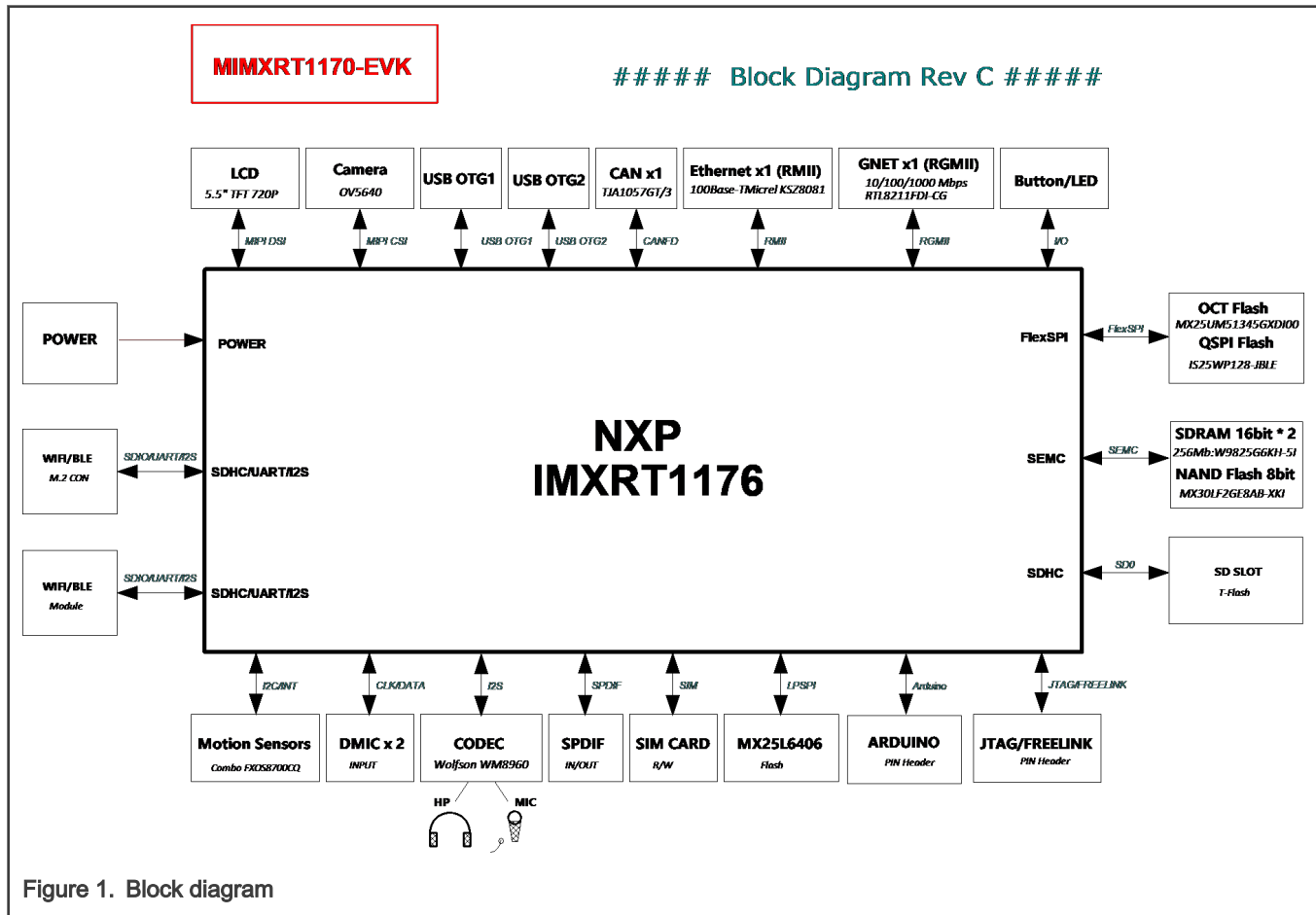


Figure 1. Block diagram

[Figure 2](#) and [Figure 3](#) show the overview of the IMXRT1170 EVK board.

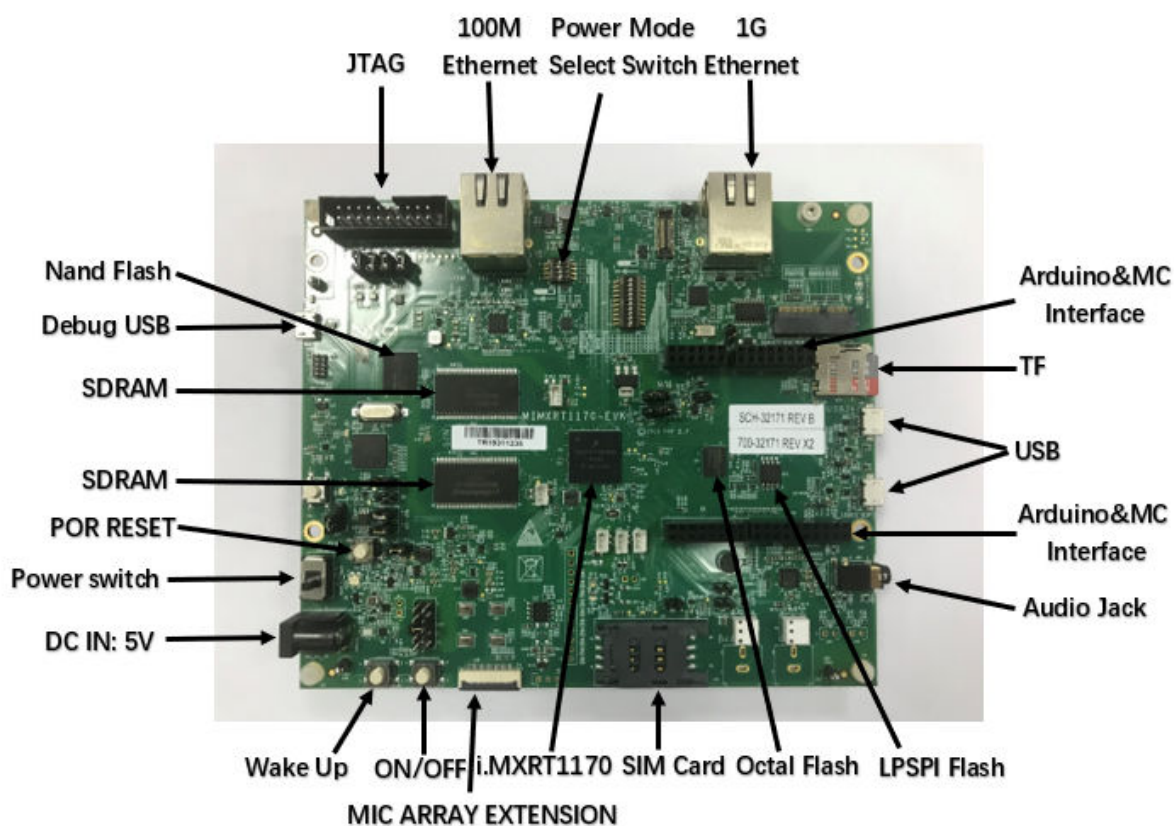


Figure 2. Overview of the IMXRT1170 EVK board (Front side)

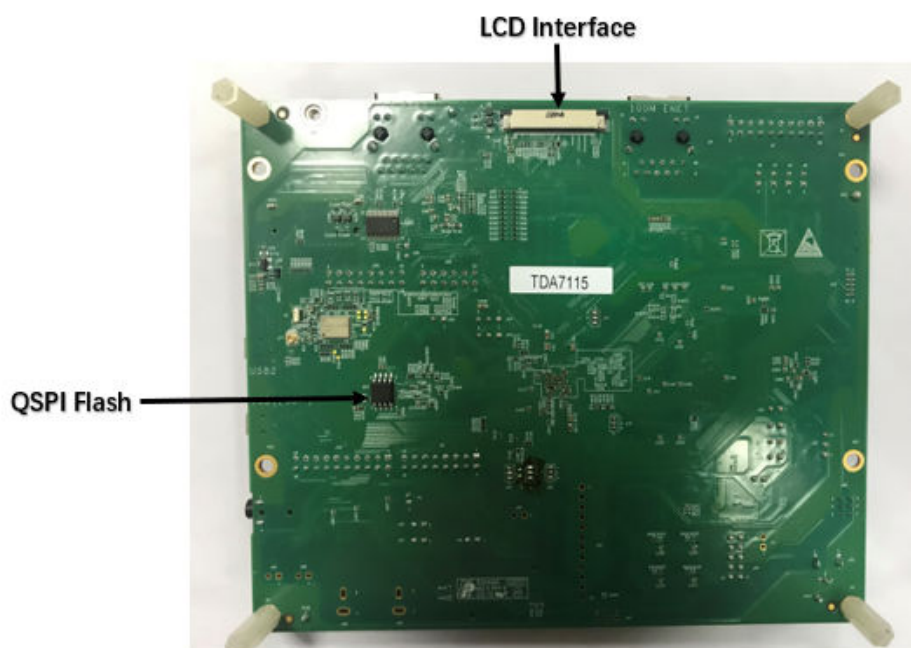


Figure 3. Overview of the IMXRT1170 EVK board (Back side)

2.1 i.MX RT1170 processor

The i.MX RT1170 is a new processor family featuring NXP's advanced implementation of the high performance Arm® Cortex® R-M7 Core and power efficient Arm CortexR-M4 Core. It provides high CPU performance and best real-time response.

The i.MX RT1170 has 2 MB on-chip RAM in total, including a 512 KB RAM which can be flexibly configured as TCM or general-purpose on-chip RAM. The i.MX RT1170 integrates advanced power management module with DC-DC and LDO that reduces complexity of external power supply and simplifies power sequencing.

It provides various memory interfaces, including SDRAM, Raw NAND FLASH, NOR FLASH, SD/eMMC, Quad SPI, Hyper RAM/Flash. It also provides a wide range of other interfaces for connecting peripherals, such as WLAN, BluetoothR, GPS, displays, and camera sensors. Like other i.MX processors, i.MX RT1170 also has rich audio and video features, including MIPI CSI/DSI, LCD display, graphics accelerator, camera interface, S/PDIF, and I²S audio interface.

The i.MX RT1170 applications processor can be used in areas such as industrial HMI, IoT, high-end audio appliance, low-end instrument cluster, Point-of-Sale (PoS), motor control, and home appliances.

2.2 Boot mode configurations

The device has four boot modes, with one reserved for NXP use. The boot mode is selected based on the binary value stored in the internal BOOT_MODE register. Switch (SW1-3 & SW1-4) is used to select the boot mode on the IMXRT1170 EVK board.

Table 2. Boot mode pin settings

BOOT_MODE[1:0] (SW1-3 SW1-4)	BOOT type
00	Boot from fuses
01	Serial downloader
10	Internal boot
11	Reserved

Typically, the internal boot is selected for normal boot, which is configured by external BOOT_CFG GPIOs. Table 3 shows the typical boot mode and boot device settings.

Table 3. Typical boot mode and boot device setting

SW1-3	SW1-4	SW2-3	SW2-6	SW2-7	Boot device
0 ¹	1	0	0	0	SDP mode
1	0	0	0	0	QSPI Flash
1	0	1	0	0	OCT Flash
1	0	0	1	0	NAND Flash
1	0	0	0	1	SD card

1. Switch value is not described if the option remains 0 for different boot device.

NOTE

For more information about boot mode configuration, see the **System Boot** chapter in *MIMXRT1170 Reference Manual*.

For more information about IMXRT1170 EVK boot device selection and configuration, see [Board schematic](#).

2.3 Power tree

A DC 5 V external power supply is used to supply the IMXRT1170 EVK board at J43, and a slide switch SW5 is used to turn the power ON/OFF. J20 and J11 can also be used to supply the EVK Board. Different power supplies need to configure different Jumper settings of J38. [Table 4](#) lists the details.

Table 4. Jumper settings of power supply

Power supply	J38 settings
J43	1-2
J20	3-4
J11	5-6

NOTE

For some use cases, the power consumption is larger than 500 mA @5V. Suggest using the DC adapter instead which can support up to 3A.

[Figure 4](#) shows the power tree.

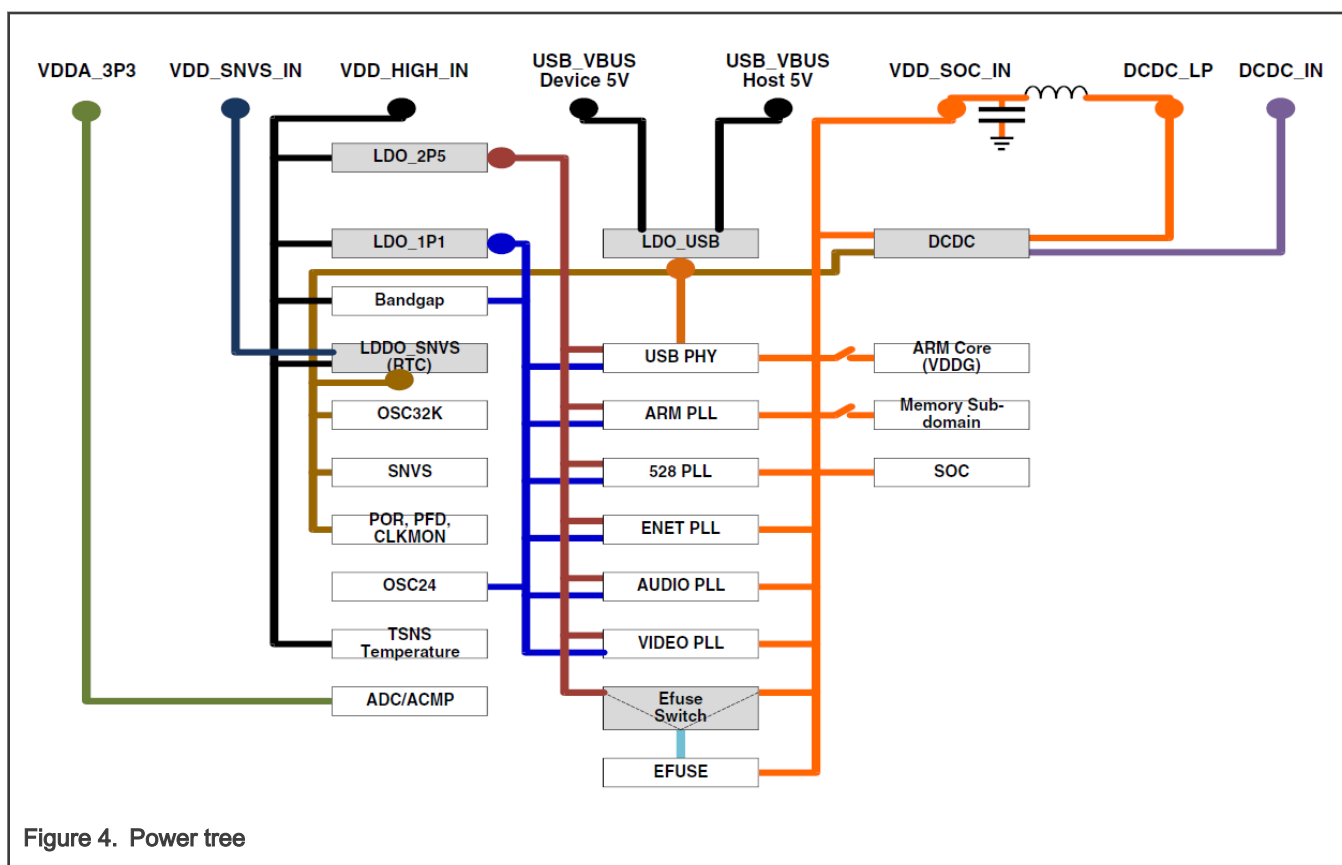


Figure 4. Power tree

- Power-on sequence requirements:
 - VDD_SNVS_IN supply must be turned on before any other power supply, or be connected (shorted) with VDD_LPSR_IN and DCDC_IN supply.
 - If a coin cell is used to power VDD_SNVS_IN, ensure that it is connected before any other supply is switched on.
 - When internal DC-DC is enabled, external delay circuit is required to delay the DCDC_PSWITCH signal 1 ms after DCDC_IN is stable.

- The `POR_B` input, if used, must be immediately asserted at power-on and remain asserted until after the last power rail reaches its working voltage. In the absence of an external reset feeding the `POR_B` input, the internal POR module takes control.
- Power-off sequence requirements:
 - `VDD_SNVS_IN` supply must be turned off after any other power supply, or be connected (shorted) with `VDD_LPSR_IN` and `DCDC_IN` supply.
 - If a coin cell is used to power `VDD_SNVS_IN`, ensure that it is removed after any other supply is switched off.

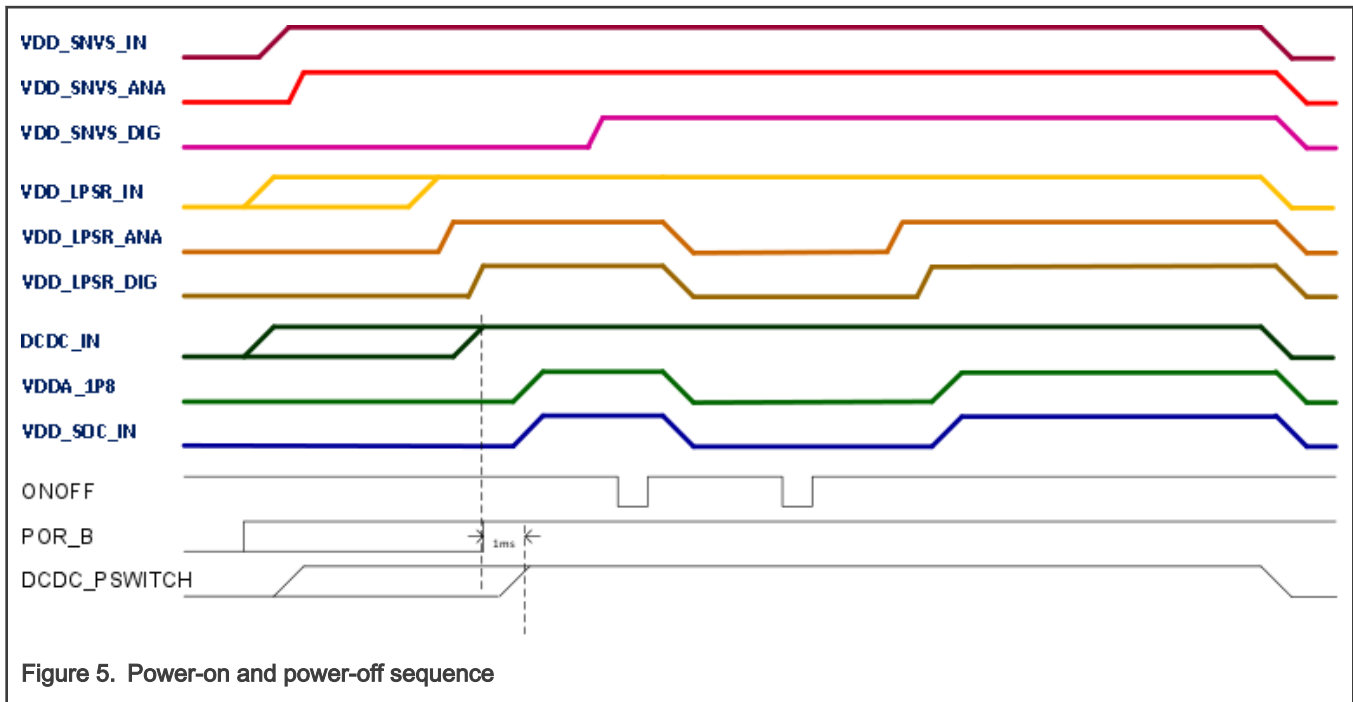


Figure 6 shows the power control logic of the IMXRT1170 EVK board.

- It powers up SNVS first, then `PMIC_ON_REQ` is switched on to enable external DC-DC to power up other power domains.
- `ON/OFF` button is used to switch `ON/OFF` `PMIC_ON_REQ` to control power modes.
- The `RESET` button and `WDOG` output are used to reset the system power.

NOTE

The processor's on-chip DC-DC regulator is suitable for consumer and industrial applications up to 105 °C. For automotive applications, contact your NXP representative.

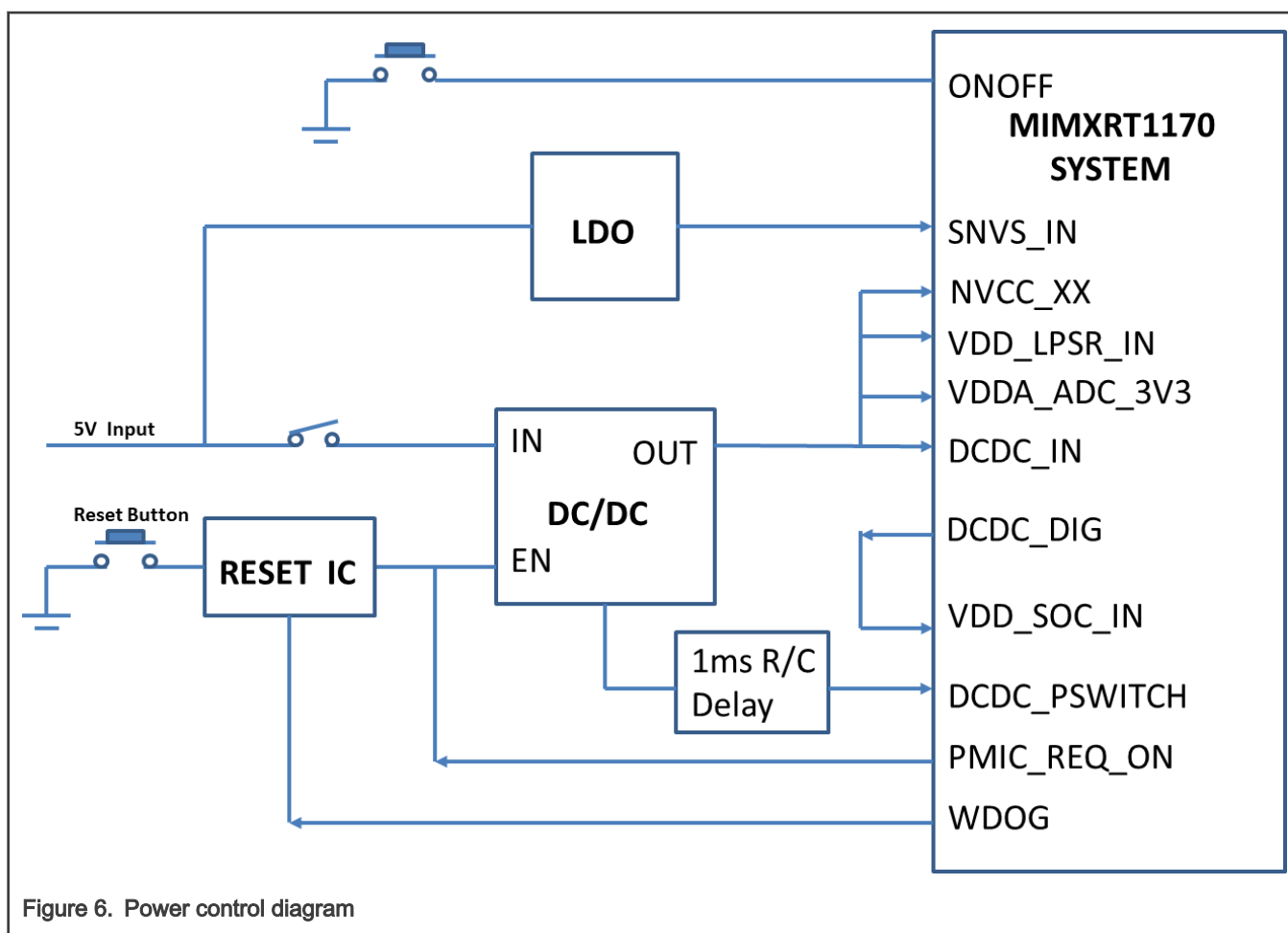


Table 5 describes the power rails on the board.

Table 5. Power rails

Power rail	MIN (V)	TYP (V)	MAX (V)	Description
DCDC_IN	3	3.3	3.6	Power for DC-DC
VDDA_1P8_IN	1.71	1.8	1.89	Power for PLL, OSC, and LDOs
VDD_SOC_IN	0.7	1.0	1.155	Power for digital logics
VDD_LPSR_IN	3	3.3	3.6	Power for LPSR domain
VDD_SNVS_IN	2.4	3	3.6	Power for SNVS and RTC
VDD_USB_1P8	1.65	1.8	1.95	Power for USB OTG PHYs
VDD_USB_3P3	3	3.3	3.6	
VDD_ADC_1P8	1.65	1.8	1.95	Power for ADC, Power for DAC and ACMP, ADC_VREFH<VDDA_ADC_1P8
VDD_ADC_3P3	3	3.3	3.6	
VDD_MIPI_1P8	1.65	1.8	1.95	Power for MIPI CSI/DSI PHY
VDD_MIPI_1P0	0.9	1.0	1.1	Power for MIPI CSI/DSI PHY

Table continues on the next page...

Table 5. Power rails (continued)

Power rail	MIN (V)	TYP (V)	MAX (V)	Description
NVCC_SD1	3	3.3	3.6	IO power for GPIO in SDIO1 bank (3.3 V mode)
	1.65	1.8	1.95	IO power for GPIO in SDIO1 bank (1.8 V mode)
NVCC_SD2	3	3.3	3.6	IO power for GPIO in SDIO2 bank (3.3 V mode)
	1.65	1.8	1.95	IO power for GPIO in SDIO2 bank (1.8 V mode)
NVCC_EMC1	3	3.3	3.6	IO power for GPIO in EMC bank1 (3.3 V mode)
	1.65	1.8	1.95	IO power for GPIO in EMC bank1 (1.8 V mode)
NVCC_EMC2	3	3.3	3.6	IO power for GPIO in EMC bank2 (3.3 V mode)
	1.65	1.8	1.95	IO power for GPIO in EMC bank2 (1.8 V mode)
NVCC_GPIO	3	3.3	3.6	IO power for GPIO in GPIO AD bank (3.3 V mode)
	1.65	1.8	1.95	IO power for GPIO in GPIO AD bank (1.8 V mode)
NVCC_DISP1	3	3.3	3.6	IO power for GPIO in DISP1 bank (3.3 V mode)
	1.65	1.8	1.95	IO power for GPIO in DISP1 bank (1.8 V mode)
NVCC_DISP2	3	3.3	3.6	IO power for GPIO in DISP2 bank (3.3 V mode)
	1.65	1.8	1.95	IO power for GPIO in DISP2 bank (1.8 V mode)
NVCC_LPSR	3	3.3	3.6	IO power for GPIO in LPSR bank (3.3 V mode)
	1.65	1.8	1.95	IO power for GPIO in LPSR bank (1.8 V mode)
NVCC_SNVS	1.65	1.8	1.95	IO power for GPIO in SNVS bank (1.8 V mode)

2.4 SDRAM memory

Two 256 MB, 200 MHz SDRAM (W9825G6KH-5I) is used on the EVK Board.

2.5 SD card slot

There is an SD card slot (J15) on the IMXRT1170 EVK board. J15 is the Micro SD slot for USDHC1 interface. If the developer wants to boot from the SD Card, the boot device switch settings should be set correctly as shown in [Table 3](#).

2.6 Hyper Flash

On the IMXRT1170 EVK board, there is one 512 Mbit Hyper Flash device. If the developer wants to boot from the Hyper Flash, the boot device switch settings should be set correctly as shown in [Table 3](#).

By default, the Hyper Flash is not used. To enable the onboard OCT Flash, the settings must be changed.

1. Remove resistors: R380/R399/R386/R390/R392/R385.
2. Weld 0 Ω resistors: R381/R378/R382/R389/R402/R377/R388/R391.

2.7 QSPI Flash

A 128 Mbit QSPI Flash is used on the IMXRT1170 EVK board. If the developer wants to boot from the QSPI Flash, the boot device switch settings should be set correctly as shown in [Table 3](#).

By default, this QSPI Flash is enabled on the EVK.

2.8 ENET PHY connector

There are two Ethernet Mac controllers in the MIMXRT1170 processor.

The 10/100 M Ethernet subsystems of the IMXRT1170 EVK board are provided by the KSZ8081RNB 10/100 M Ethernet transceiver (U7) and a RJ45 (J3) with integrated magnetic.

The 10/100/1000 M Ethernet subsystems of the IMXRT1170 EVK board are provided by the RTL8211FDI-CG 10/100/1000 M Ethernet transceiver (U10) and a RJ45 (J4) with integrated magnetic.

2.9 USB PHY connector

The MIMXRT1170 contains two integrated USB 2.0 PHYs capable of connecting to USB host/device systems at the USB low-speed (LS) rate of 1.5 Mbits/s, full-speed (FS) rate of 12 Mbits/s or at the USB 2.0 high-speed (HS) rate of 480 Mbits/s.

2.10 Audio input/output connector

The audio CODEC used on the IMXRT1170 EVK board is Wolfson's low-power, high-quality Stereo Codec, WM8960. The IMXRT1170 EVK board includes:

1. One headphone interface (J33) which is a 3.5 mm audio stereo headphone jack, which supports jack detect.
2. One onboard MIC (P1).
3. Two speaker interfaces (J39, J40).

The EVK also provides the SPDIF interface (J45 and J46, DNP) and DMIC interface input through U40/U41/U44/U45.

2.11 OpenSDA circuit (DAP-Link)

The OpenSDA circuit (CMSIS-DAP) is an open-standard serial and debug adapter. It bridges serial and debug communications between a USB host and an embedded target processor.

CMSIS-DAP features a Mass Storage Device (MSD) bootloader, which provides a quick and easy mechanism for loading different CMSIS-DAP Applications such as flash programmers, run-control debug interfaces, serial-to-USB converters, etc. Two or more CMSIS-DAP applications can run simultaneously. For example, run-control debug application and serial-to-USB converter run in parallel to provide a virtual COM communication interface while allowing code debugging via CMSIS-DAP with just a single USB connection.

For the IMXRT1170 EVK board, J11 is the connector between the USB host and the target processor. Jumper to serial downloader mode uses the stable DAP-Link debugger function. If developer wants to make OpenSDA going to the bootloader mode, jumper J27 to 1-2 and press SW3 when power on. Meanwhile, the OpenSDA supports drag/drop feature for U-Disk.

1. Use the serial downloader mode to drag/drop the image file to U-Disk.

2. Select QSPI Flash as boot device.
3. Reset the board.

Now, the image will run.

2.12 JTAG connector

J1 is a standard 20-pin/2.54 mm box header connector for JTAG. Figure 7 shows the pin definitions. **SWD** is supported by default.

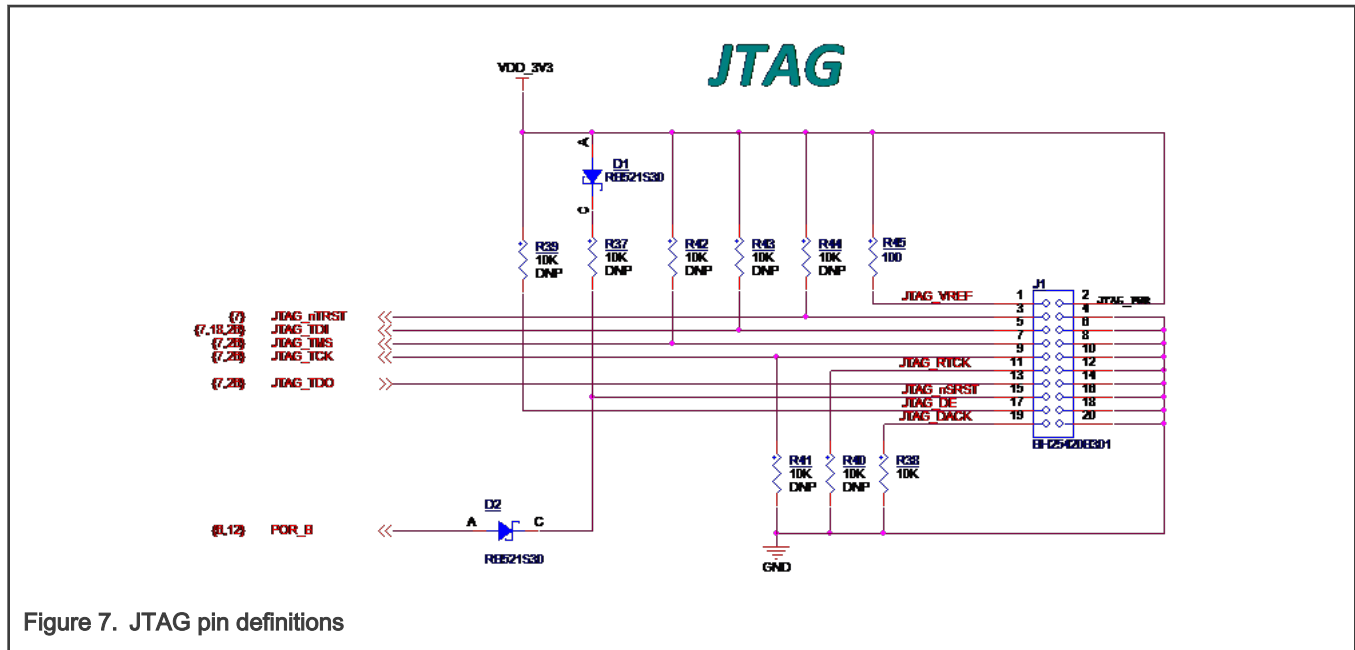


Figure 7. JTAG pin definitions

NOTE

By default, the RT1170 silicon can use both SWD and JTAG modes using the Arm stitching sequence. For the RT1170EVK board, SWD debug is used by default without any board modification. To use JTAG debug, solder out R187, R208, R195, and R78, because some JTAG signals are multiplexed with other functions.

2.13 Arduino expansion port

J22 to J25 are defined as Arduino interfaces. Table 6 lists the pin definitions of Arduino interfaces.

Table 6. Arduino Interface pin definitions

J9	J26	J10	J25
UART_RX/D0	A0/ADC0	D8/CLKO/ICP1	NC
UART_TX/D1	A1/ADC1	D9/OC1A/PWM	IOREF
D2/INT0	A2/ADC2	D10/SPI_CS	RESET
D3/INT1/PWM/OC2B	A3/ADC3	D11/OC2A/PWM/SPI_MOSI	3.3 V
D4/T0/XCK	A4/ADC4/SDA	D12/SPI_MISO	5 V
D5/T1/PWM	A5/ADC5/SCL	D13/SPI_CLK	GND
D6/AIN0/PWM/OC0A	—	GND	GND

Table continues on the next page...

Table 6. Arduino Interface pin definitions (continued)

J9	J26	J10	J25
D7/AIN1/PWM	—	AREF	VIN
—	—	D14/I2C_SDA	—
—	—	D15/I2C_SCL	—

The EVK board uses the two line connector which also reserved the function to interface the motor control board.

2.14 Camera module connector

One MIPI CSI is supported by the i.MX RT1170. There is a Camera Module Connector (J2) on the IMXRT1170 EVK board. The MT9M114 based on OV5640 can be used directly.

2.15 User interface switch/button

There are four user interface switches/buttons on the IMXRT1170 EVK board. Their functionalities are as below.

2.15.1 Power switch

SW5 is a slide switch to control the power of the IMXRT1170 EVK board when the power supply is from J43. The functions of this switch are listed as below:

- Sliding the switch to the ON position connects the 5 V power supply to the Evaluation board main power system.
- Sliding the switch to the OFF position immediately removes all power from the board.

2.15.2 ON/OFF button

SW6 is the ON/OFF button for IMXRT1170 EVK board. A short pressing in the **OFF** mode causes the internal power management state machine to change state to **ON**. In the **ON** mode, a short pressing generates an interrupt, intended to be a software-controllable (power-down). Pressing for approximate five seconds or longer causes a forced **OFF**. Both boot mode inputs can be disconnected.

2.15.3 Reset button

There are two reset buttons on the EVK board. SW4 is the power-on reset button. Pressing the SW4 in the **ON** state will force to reset the system power except SNVS domain. The processor will be immediately turn off and reinitiate a boot cycle from the **OFF** state. SW3 is POR pin reset button.

2.15.4 USER button

SW7 is the USER button connected to the **WAKEUP** pin for developer to use.

2.16 Sensor

U34 on the EVK board is a 6-Axis Ecompass, 3-Axis Mag and 3-Axis Accel, sensor FXOS8700CQ. The Ecompass is connected to i.MX RT1170 I2C5 port.

2.17 User interface LED indicator

There are four LED status indicators on the EVK board. The functions of these LEDs include:

- Main power supply(D16)
 - Green: DC 5 V main supply is normal.
 - Red: J2 input voltage is over 5.6 V.

— Off: the board is not powered.

- POR pin Reset RED LED (D7)
- USER LEDs (D6, D34)

2.18 LCD interface

The Mobile Industry Processor Interface (MIPI) Display Serial Interface (DSI) controller is a flexible digital core, with high-performance and easy to use. It implements all protocol functions defined in the MIPI DSI specification. The MIPI DSI controller provides an interface that allows communication with MIPI DSI-compliant peripherals.

If developers want to use LCD, NXP provides an optional LCD module RK055HDMIPI4M equipped with a 5.5" 720*1280 TFT LCD display with touch sensitive overlay. This module contains one FPC cable that connects to RT1170EVK. The LCD interface can be connected to J48. LCD modules can be purchased from the NXP website.

Chapter 3

PCB information

The IMXRT1170 EVK board uses the standard 6-layer technology. The material used is FR-4. [Table 7](#) describes the PCB stack-up information.

Table 7. Board stack-up information

Layer	Description	Copper (Oz)	Dielectric thickness (mil)
1	Signal	1/2	—
	Dielectric	—	3.5
2	GND	1	
	Dielectric		5
3	Signal	1	—
	Dielectric	—	37
4	Power	1	—
	Dielectric		5
5	GND	1	—
	Dielectric	—	3.5
6	Signal	1/2	—

Chapter 4

EVK design files

The schematics, layout files, and gerber files (including Silkscreen) can be downloaded from [MIMXRT1170-EVK](#).

Chapter 5

Contents of evaluation kit

Table 8. EVK contents

Item	Description
EVK board	EVK board with processor, memory, interfaces, etc
Power adaptor	5V/3A power adaptor
Camera module	OV5640 MIPI camera module
USB cable	USB cable, Micro-B to Standard-A

NOTE

Micro SD Card and LCD Module are not standard parts of the Evaluation Kit.

Chapter 6

Revision history

Table 9. Revision history

Revision number	Date	Substantive changes
0	08/2020	Initial release
1	03/2021	Added note for DC-DC regulator in Power tree
2	04/2021	Minor updates

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