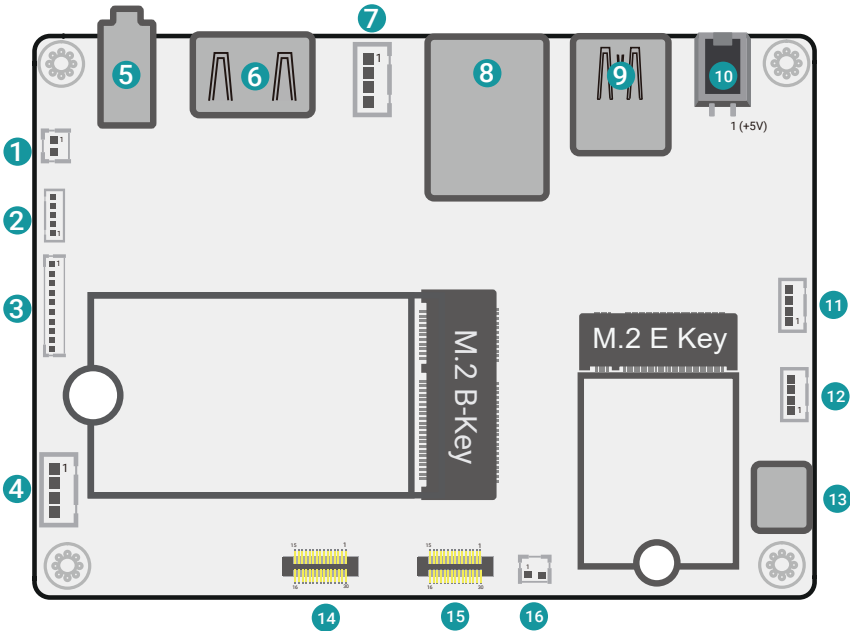
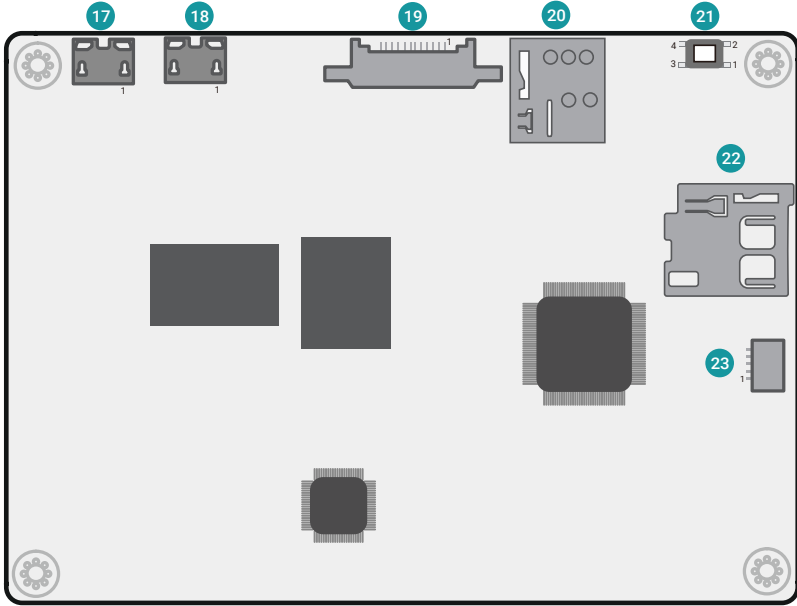


Board Layout

Top View



Bottom View



- | | | | |
|----|-------------|----|----------------------------|
| 1 | Battery | 13 | USB Type C (Download only) |
| 2 | COM1 | 14 | Camera1 |
| 3 | DIO 8-bits | 15 | Camera2 |
| 4 | CAN FD | 16 | Force USB Boot |
| 5 | Audio | 17 | USB2.0_Debug/Console |
| 6 | HDMI | 18 | USB2.0_ADB |
| 7 | USB2.0_4 | 19 | SPI/I2C/GPIO |
| 8 | LAN | 20 | SIM Slot |
| 9 | USB3.0 Gen1 | 21 | USB Boot (SW1) |
| 10 | DC-IN | 22 | uSD Slot |
| 11 | USB2.0_2 | 23 | Front Panel |
| 12 | USB2.0_1 | | |

PIN Assignment

10 ► DC-IN (DCCN1)

Pin	Assignment
1	+5V
2	GND

1 ► Battery (BTJ1)

Pin	Assignment
1	+VBAT
2	GND

16 ► Force USB Boot (SWJ1)

Pin	Assignment
1	Force_USB_Boot
2	SW1_PU_1P8

12 ► USB2.0_1 (UBJ1)

Pin	Assignment
1	+5V
2	USB-DN
3	USB-DP
4	GND



Note:

SWJ1, internal wafer, is saved for system integration. Same function as SW1. To enter the download mode (USB Boot), you can just press SW1 or have SWJ1 two pins short-circuited.

7 ► USB2.0_4 (UBJ4)

Pin	Assignment
1	+5V
2	USB-DN
3	USB-DP
4	GND

11 ► USB2.0_2 (UBJ2)

Pin	Assignment
1	+5V
2	USB-DN
3	USB-DP
4	GND

4 ► CAN FD (CBJ1)

Pin	Assignment
1	+VDD_CAN
2	CAN1H
3	CAN1L
4	GND

18 ▶ USB2.0_ADB (UBCN4)

Pin	Assignment
1	+5V
2	USB-DN
3	USB-DP
4	NC
5	GND

17 ▶ USB2.0_Debug/Console (DUCN1)

Pin	Assignment
1	+5V
2	USB-DN
3	USB-DP
4	NC
5	GND

23 ▶ Front Panel (FPJ1)

Pin	Assignment
1	GND
2	Volume-_Button#
3	Volume+_Button#
4	PWR_Button#
5	LED_3.3V

2 ▶ COM1 (TSJ1)

Pin	Assignment
1	COM1_RX
2	COM1_TX
3	COM1_CTS
4	COM1_RTS
5	GND

3 ▶ DIO 8-bits (IOJ1)

Pin	Assignment
1	DIO0
2	DIO1
3	DIO2
4	DIO3
5	DIO4
6	DIO5
7	DIO6
8	DIO7
9	+VPWR_3.3V
10	GND

19 ▶ SPI/I2C/GPIO (IOJ2)

Pin	Assignment
1	+VCC_3.3V
2	SPI_MISO_3V3
3	SPI_MOSI_3V3
4	SPI_CLK_3V3
5	SPI_CS#_3V3
6	I2C_SCL_3V3
7	I2C_SDA_3V3
8	GPIOA_3V3
9	GPIOB_3V3
10	GPIOC_3V3
11	GND
12	GND

14 ► Camera 1 (CMJ1)

Pin	Assignment	Pin	Assignment
1	CAM2_Strobe/ GPIO	2	CAM2_SPI-CLK
3	+2.8V	4	CAM2_SPI-MOSI
5	CAM2_RESET#	6	GND
7	CAM2_CSI_D2P	8	CAM2_CSI_D2M
9	GND	10	CAM2_CSI_D0P
11	CAM2_CSI_D0M	12	GND
13	CAM2_CSI_D3P	14	CAM2_CSI_D3M
15	Reserved	16	GND
17	CAM2_CSI_D1M	18	CAM2_CSI_D1P
19	GND	20	CAM2_CSI_CKM
21	CAM2_CSI_CKP	22	GND
23	CAM2_CSI_MCLK	24	GND
25	CAM2_I2C-SCL	26	CAM2_I2C-SDA
27	CAM2_SPI-CS#	28	+1.8V
29	CAM2_SPI-MISO	30	+1.1V

15 ► Camera 2 (CMJ2)

Pin	Assignment	Pin	Assignment
1	CAM0_Strobe/ GPIO	2	CAM0_RSV#1
3	+2.8V	4	CAM0_RSV#2
5	CAM0_RESET#	6	GND
7	CAM0_CSI_D2P	8	CAM0_CSI_D2M
9	GND	10	CAM0_CSI_D0P
11	CAM0_CSI_D0M	12	GND
13	CAM0_CSI_D3P	14	CAM0_CSI_D3M
15	Reserved	16	GND
17	CAM0_CSI_D1M	18	CAM0_CSI_D1P
19	GND	20	CAM0_CSI_CKM
21	CAM0_CSI_CKP	22	GND
23	CAM0_CSI_MCLK	24	GND
25	CAM0_I2C-SCL	26	CAM0_I2C-SDA
27	CAM0_RSV#4	28	+1.8V
29	CAM0_RSV#3	30	+1.1V



DFI reserves the right to change the specifications at any time prior to the product's release. This QR may be based on the product's revision. For more documentation and drivers, please visit the download page at www.dfi.com/downloadcenter, or via the QR codes to the right.

