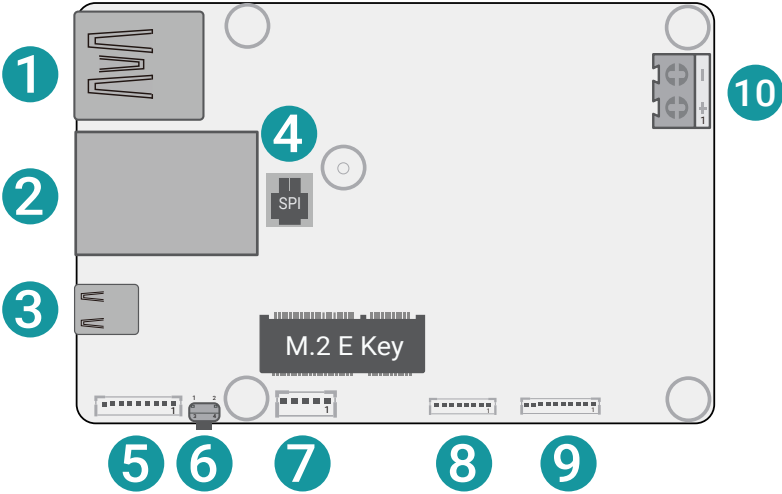


# TWLF51

## Board Layout

### Top View



1 2 x USB 3.2 Gen2

2 1 x GbE (RJ-45)

3 1 x Micro HDMI (HDMI 2.0)

4 SPI

5 COM1

6 Reset Button

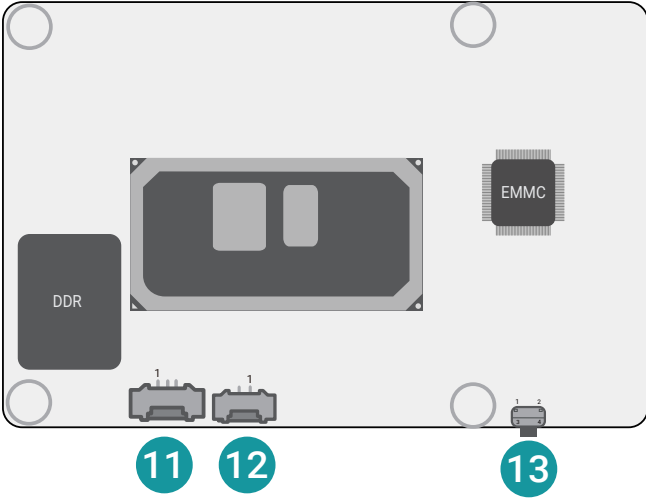
7 I2C

8 2 x USB2.0

9 DIO

10 12V Power Connector

## Bottom View



- 11 CPU Fan
- 12 RTC Battery
- 13 Power Button

# PIN Assignment

## 12 ▶ RTC Battery (J7)

Pin	Assignment
1	GND
2	RTC Signal

## 10 ▶ 12V Power Connector (CN3)

Pin	Assignment
1	DC-IN
2	GND

## 11 ▶ CPU Fan (J4)

Pin	Assignment
1	N.C.
2	5V
3	GND

## 13 ▶ Power Button (SW1)

Pin	Assignment	Pin	Assignment
1	GND	2	PWR_IN#
3	N.C.	4	N.C.
5	GND		

## 7 ▶ I2C (J6)

Pin	Assignment
1	3VSB
2	GND
3	I2C0_CLK
4	I2C0_SDA
5	I2C0_INT

## 6 ▶ Reset Button (SW2)

Pin	Assignment	Pin	Assignment
1	GND	2	SYS_RST
3	GND	4	GND
5	GND		

## 5 ► COM1 (TSJ1)

Pin	Assignment	Pin	Assignment
1	MDCD1#	2	MSIN1
3	MSOUT1	4	MDTR1#
5	GND	6	MDSR1#
7	MRTS1#	8	MCTS1#
9	MRI1#		

## 8 ► USB2.0 (J1)

Pin	Assignment	Pin	Assignment
1	USB2_PWR34	2	USB2_1_C_N
3	USB2_1_C_P	4	GND
5	USB2_PWR34	6	USB2_2_C_N
7	USB2_2_C_P	8	GND
9	N.C.	10	N.C.

## 9 ► DIO (J5)

Pin	Assignment
1	D_IOA7_C
2	D_IOA6_C
3	D_IOA5_C
4	D_IOA4_C
5	D_IOA3_C
6	D_IOA2_C
7	D_IOA1_C
8	D_IOA0_C
9	5VSB
10	GND



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](http://www.dfi.com/downloadcenter), or via the QR codes to the right.

