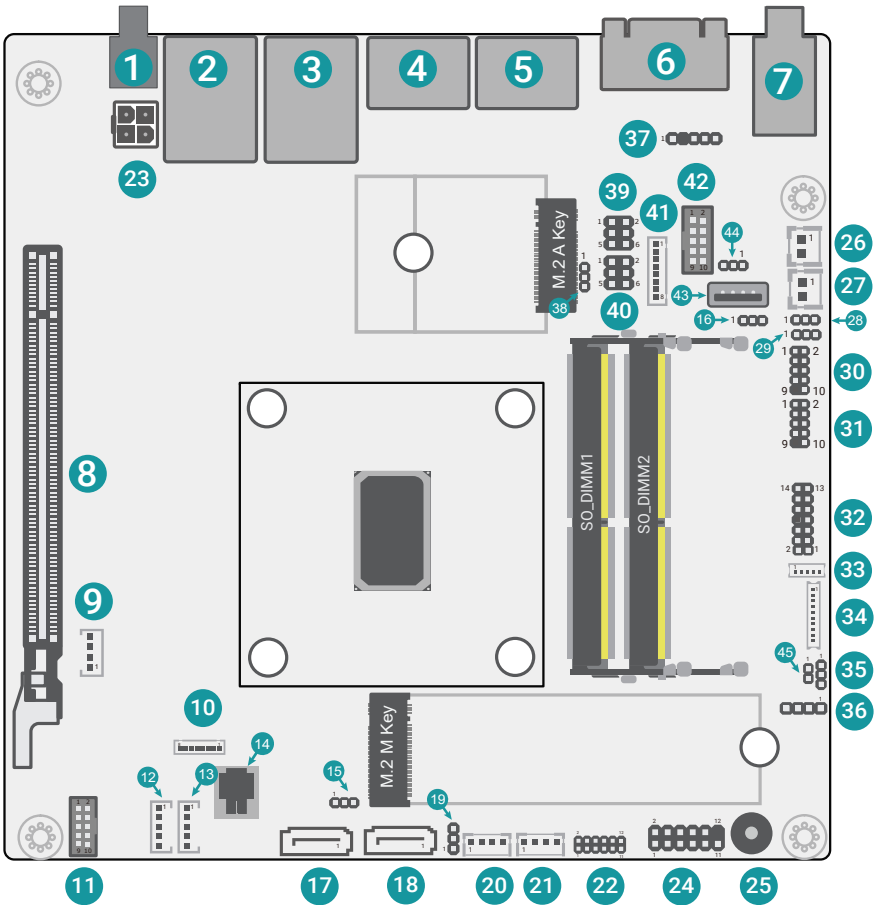


Board Layout

Top View



1 DC Jack for DC-IN

▲LAN1

▼USB3

▼USB3

▲LAN2

▼USB2

▼USB2

2xDP

2xDP

▲COM1

▼COM2

▲Line In

▼Line Out

▼Mic In

PCI-E

CPU Fan

SMBus/I2C

COM3/4/5/6

SATA Power

SATA Power

SPI

M.2-M SATA or PCI-E Model

COM2 Output

SATA0

SATA1

M.2-M Power

C.C.Talk

C.C.Talk

Simple-232 / TTL-5V

2x2p Power Connector

Front Panel

Buzzer

Speaker

Speaker

Panel Inverter Power

M.2-A Power

USB2

USB2

eSPI Header

OOB I2C

DIO

COM6

System Fan

SPDIF

Panel Power ON/OFF

BKL,VDDEN

Panel Power Selection

41 Panel Power

42 GIO

43 USB2.0 Type A (Vertical)

44 Panel Backlight Selection

45 CASEOPEN

Jumper Settings

29 M.2-A Power	JP2
3.3V_RUN (default)	1-2 On
3.3V_ALW	2-3 On

19 M.2-M Power	JP3
3.3V_RUN (default)	1-2 On
3.3V_ALW	2-3 On

35 COM6	JP5
RS232	1-2 On
TTL-3.3V	2-3 On

22 Simple-232 / TTL-5V	JPS1
RS232(COM3)-default	1-3, 2-4 On
TTL-5V(COM3)	3-5, 4-6 On
RS232(COM4)-default	7-9 On
RS232(COM5)-default	8-10 On
C.C.Talk(COM4)	9-11 On
C.C.Talk(COM5)	10-12 On

15 M.2-M SATA or PCIE Model	JP1
SATA Connector/M.2-M PCIE	1-2 On
X /M.2- M SATA	2-3 On

44 Panel Backlight Selection	DPJP1
+3.3V_RUN (default)	1-2 On
+5V_RUN	2-3 On

28 Panel Inverter Power Selection	DPJP2
12V	1-2 On
5V (default)	2-3 On

38 Panel Power ON/OFF	DPJP3
Support Panel Power	1-2 On
NC	2-3 On

40 Panel Power Selection	DPJP4
12V	1-2 On
5V	3-4 On
3.3V (default)	5-6 On

39 BKL,VDDEN	DPJP5
LVDS	1-3,2-4
eDP	3-5,4-6

16 COM2 Output	JP16
5V (default)	1-2 On
12V	2-3 On

PIN Assignment

45 ▶ CASEOPEN (SOJ1)

Pin	Assignment
1	CASEOPEN#
2	GND

* PIN PLUG 1*2pin/2.54mm

26 ▶ Speaker (J4)

Pin	Assignment
1	SPKOUT_R+
2	SPKOUT_R-

* BOX HEADER, 1*2P/2.0mm

27 ▶ Speaker (J5)

Pin	Assignment
1	SPKOUT_L+
2	SPKOUT_L-

* BOX HEADER, 1*2P/2.0mm

21 ▶ C.C.Talk (CN8)

Pin	Assignment
1	+12V_RUN
2	+12V_RUN
3	GND
4	CCTALK_CH1

* BOX HEADER, 1*4P/2.0mm

20 ▶ C.C.Talk (CN9)

Pin	Assignment
1	+12V_RUN
2	+12V_RUN
3	GND
4	CCTALK_CH2

* BOX HEADER, 1*4P/2.0mm

36 ▶ System Fan (J16)

Pin	Assignment
1	GND
2	12V
3	RPM
4	CTRL

* BOX HEADER 1*4,2.54mm

9 ▶ CPU Fan (CN10)

Pin	Assignment
1	GND
2	12V
3	RPM
4	CTRL

* WAFER,1x4/1.25mm

33 ▶ OOB I2C (J13)

Pin	Assignment
1	NC
2	GND
3	SIO_SCL
4	SIO_SDA
5	NC

* BOX HEADER, 1*5P/1.0mm

12 ▶ SATA POWER (J6)

Pin	Assignment
1	5V
2	5V
3	12V
4	GND
5	GND

* Wafer 1.25mm wire to board 5PIN

17 ▶ SATA0 (J7)

Pin	Assignment
1	GND
2	TXP
3	TXN
4	GND
5	RXN
6	RXP
7	GND

* SATA3 CONNECTOR 7Pin

13 ▶ SATA POWER (J9)

Pin	Assignment
1	5V
2	5V
3	12V
4	GND
5	GND

* Wafer 1.25mm wire to board 5PIN

37 ▶ SPDIF (AUJ1)

Pin	Assignment
1	A5V
2	X
3	SPOUT
4	GND
5	SPIN

* PIN PLUG 1*5-1(K2),2.54mm

18 ▶ SATA1 (J8)

Pin	Assignment
1	GND
2	TXP
3	TXN
4	GND
5	RXN
6	RXP
7	GND

* SATA3 CONNECTOR 7Pin

41 ► Panel Power (DPJ1)

Pin	Assignment
1	GND
2	GND
3	DIMMING
4	VCC_PANEL
5	+3.3V_RUN
6	BLONOFF
7	INVTER_PWR
8	INVTER_PWR

* BOX HEADER, 1*8P/1.25mm

34 ► DIO (J18)

Pin	Assignment
1	DI3
2	DI2
3	DI1
4	DI0
5	DO3
6	DO2
7	DO1
8	DO0
9	+5V_ALW
10	GND

* BOX HEADER, 1*10P/1.0mm

42 ► GIO (J20)

Pin	Assignment
1	GND
2	GND
3	USB2_D-
4	LINEOUT_R
5	USB2_D+
6	LINEOUT_L
7	GND
8	GND
9	RX
10	TX

* BOX HEADER, 2*5, 2.0mm

30 ► USB2 (UBJ1)

Pin	Assignment
1	USB Power 5V
2	USB Power 5V
3	USBP_C_2N
4	USBP_C_3N
5	USBP_C_2P
6	USBP_C_3P
7	GND
8	GND
9	X
10	NC

* PIN PLUG 2*5-1(K9), 2.0mm

31 ► USB2 (UBJ2)

Pin	Assignment
1	USB Power 5V
2	USB Power 5V
3	HUB_P1_N
4	HUB_P2_N
5	HUB_P1_P
6	HUB_P2_P
7	GND
8	GND
9	X
10	NC

* PIN PLUG 2*5-1(K9), 2.0mm

11 ► COM3/4/5/6 (TSJ1)

Pin	Assignment	Pin	Assignment
1	CN_TX3	2	RS232_TX4
3	CN_RX3	4	RS232_RX4
5	GND	6	GND
7	RS232_TX5	8	RS232_TX6
9	RS232_RX5	10	RS232_RX6

* BOX HEADER, 2*5, 2.0mm

10 ► SMBus / I2C (J2)

Pin	Assignment	Pin	Assignment
1	3.3V_ALW	2	GND
3	SMB_CLK	4	SMB_DATA
5	SMB_INT	6	I2C_SCL
7	I2C_SDA	8	I2C_INT

* BOX HEADER, 1*8P/1.0mm

24 ► Front Panel (J14)

Pin	Assignment	Pin	Assignment
1	NC	2	3V3SB
3	3V3_RUN	4	3V3SB
5	HDD_LED	6	SUS_LED
7	GND	8	GND
9	SYS_RST-	10	PWR_BTN-
11	NC	12	---

* PIN PLUG 2*6-1(K12), 2.54mm

32 ► eSPI Header (J17)

Pin	Assignment	Pin	Assignment
1	+3.3V_ALW	2	ESPI_CLK
3	ESPI_RESET#	4	GND
5	ESPI_ALT#	6	UART0_TX
7	ESPI_D0	8	---
9	ESPI_D1	10	ESPI_CS
11	ESPI_D2	12	UART0_RX
13	ESPI_D3	14	+3.3V_ALW

* PIN PLUG, 2*7P-1(K8)/2.0mm



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.

