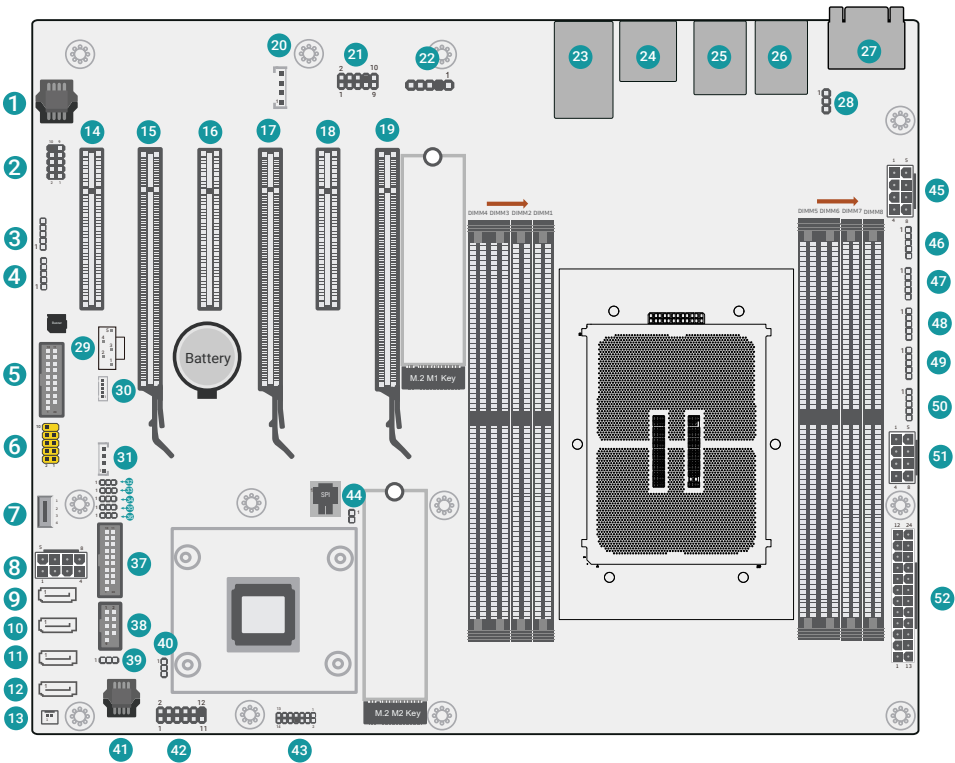


Board Layout

Top View



1	BMC Flash	21	Front Audio
2	COM3	22	S/PDIF
3	System Fan4	23	▲10G LAN1 ▼10G LAN2
4	System Fan3	24	LAN3
5	USB3 / USB2	25	▲LAN2 ▼USB2_3/4 USB3_3/4
6	USB2	26	▲LAN1 ▼USB2_1/2 USB3_1/2
7	USB 2.0_P9	27	▲COM1 ▼DP
8	2x4 12V_CONN	28	COM1 RI Select
9	SATA0	29	PSU SMBus
10	SATA1	30	SMBus Header
11	SATA2	31	DIO Power
12	SATA3	32	DIO Power Select (5V_DIO)
13	RTC Header	33	DIO signal PU/PD Select
14	PCIe x8	34	DIO signal PU/PD Select
15	PCIe x16	35	DIO signal PU/PD Select
16	PCIe x8	36	DIO signal PU/PD Select
17	PCIe x16	37	DIO
18	PCIe x8	38	COM2
19	PCIe x16	39	COM2 RI Select
20	BMC UART	40	Clear CMOS

41	BIOS Flash
42	Front Panel
43	ESPI Debug Header
44	Case Open
45	2x4 12V_CONN
46	CPU FAN
47	System Fan1
48	System Fan2
49	System Fan5
50	System Fan6
51	2x4 12V_CONN
52	2x12 ATX CONN



Jumper Settings

40 Clear CMOS	JP15
Normal (default)	1-2 On
Clear RTC Registers	2-3 On

32 DIO Power Select (5V_DIO)	JP3
5VDU (default)	1-2 On
5V	2-3 On

35 DIO Signal PU/PD Select	JP2
5V (default)	1-2 On
GND	2-3 On

36 DIO Signal PU/PD Select	JP4
5V (default)	1-2 On
GND	2-3 On

33 DIO Signal PU/PD Select	JP5
5V (default)	1-2 On
GND	2-3 On

34 DIO Signal PU/PD Select	JP6
5V (default)	1-2 On
GND	2-3 On

28 COM1 RI Select	JP34
5V (default)	1-2 On
12V	2-3 On

39 COM2 RI Select	JP35
5V (default)	1-2 On
12V	2-3 On

13 ▶ RTC Header (J2)

Pin	Assignment
1	Power
2	GND

44 ▶ Case Open (SOJ1)

Pin	Assignment
1	Caseopen
2	GND

20 ▶ BMC UART (J4)

Pin	Assignment
1	3V3
2	RX
3	TX
4	GND

31 ▶ DIO Power (J20)

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

47 ▶ System Fan1 (J11)

Pin	Assignment
1	GND
2	12V
3	RPM1
4	CTRL
5	RPM2

48 ▶ System Fan2 (J13)

Pin	Assignment
1	GND
2	12V
3	RPM1
4	CTRL
5	RPM2

4 ► System Fan3 (J12)

Pin	Assignment
1	GND
2	12V
3	RPM1
4	CTRL
5	RPM2

49 ► System Fan5 (J23)

Pin	Assignment
1	GND
2	12V
3	RPM1
4	CTRL
5	RPM2

46 ► CPU Fan (J9)

Pin	Assignment
1	GND
2	12V
3	RPM1
4	CTRL
5	RPM2

29 ► PMBus (J22)

Pin	Assignment
1	SCL
2	SDA
3	ALERT
4	GND
5	(NC)

3 ► System Fan4 (J14)

Pin	Assignment
1	GND
2	12V
3	RPM1
4	CTRL
5	RPM2

50 ► System Fan6 (J26)

Pin	Assignment
1	GND
2	12V
3	RPM1
4	CTRL
5	RPM2

22 ► S/PDIF (AUJ1)

Pin	Assignment
1	5V
2	---
3	SPDIF-OUT
4	GND
5	SPDIF-IN

9 ► SATA0 (J16)

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

10 ► SATA1 (J17)

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

11 ► SATA2 (J18)

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

12 ► SATA3 (J19)

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

30 ► SMBus (J25)

Pin	Assignment	Pin	Assignment
1	3V3	2	GND
3	SMB_CLK	4	SMB_DATA
5	SMB_ALERT	6	---

38 ► COM2 (TSJ1)

Pin	Assignment	Pin	Assignment
1	MDCD-	2	MSIN-
3	MSO-	4	MDTR-
5	GND	6	MDSR-
7	MRTS-	8	MCTS-
9	MRI-	10	---

21 ► Front Audio (AUJ2)

Pin	Assignment	Pin	Assignment
1	MIC2-L	2	GND
3	MIC2-R	4	(NC)
5	LINE2-R	6	MIC2-JD
7	GND	8	---
9	LINE2-L	10	LINE2-JD

6 ► USB2 (UBJ3)

Pin	Assignment	Pin	Assignment
1	5V	2	5V
3	USB2_P10_RN	4	USB2_P11_RN
5	USB2_P10_RP	6	USB2_P11_RP
7	GND	8	GND
9	---	10	GND

42 ► Front Panel (J8)

Pin	Assignment	Pin	Assignment
1	NC	2	3V3
3	3V3	4	3V3
5	HDD_LED	6	Power_LED
7	GND	8	GND
9	SYS_RST-	10	PWR_BTN-
11	NC	12	---

43 ► eSPI debug Header (J6)

Pin	Assignment	Pin	Assignment
1	3V3	2	ESPI_CLK
3	ESPI_RESET	4	GND
5	ESPI_ALERT	6	GND
7	ESPI_D0	8	---
9	ESPI_D1	10	ESPI_CS
11	ESPI_D2	12	3V3
13	ESPI_D3	14	3V3

45 51 8 ► 12V Power (CN1, CN2, CN6)

Pin	Assignment	Pin	Assignment
1	GND	5	12V
2	GND	6	12V
3	GND	7	12V
4	GND	8	12V

5 ► USB3 / USB2 (UBJ1)

Pin	Assignment	Pin	Assignment
1	5V	11	USB2_P8_R_P
2	USB3_P5_RX_R_N	12	USB2_P8_R_N
3	USB3_P5_RX_R_P	13	GND
4	GND	14	USB3_P6_TX_C_R_P
5	USB3_P5_TX_C_R_N	15	USB3_P6_TX_C_R_N
6	USB3_P5_TX_C_R_P	16	GND
7	GND	17	USB3_P6_RX_R_P
8	USB2_P7_R_N	18	USB3_P6_RX_R_N
9	USB2_P7_R_P	19	5V
10	NC	20	---

37 ► DIO (J21)

Pin	Assignment	Pin	Assignment
1	GND	11	DIO8
2	GND	12	DIO9
3	DIO7	13	DIO10
4	DIO6	14	DIO11
5	DIO5	15	DIO12
6	DIO4	16	DIO13
7	DIO3	17	DIO14
8	DIO2	18	DIO15
9	DIO1	19	GND
10	DIO0	20	---

52 ► 2x12 ATX Power (CN3)

Pin	Assignment	Pin	Assignment
1	3V3	13	3V3
2	3V3	14	-12V
3	GND	15	GND
4	5V	16	PSON
5	GND	17	GND
6	5V	18	GND
7	GND	19	GND
8	POK	20	(NC)
9	5VSB	21	5V
10	12V	22	5V
11	12V	23	5V
12	3V3	24	GND

2 ► BMC COM (J15)

Pin	Assignment	Pin	Assignment
1	MDCD-	2	MSIN-
3	MSO-	4	MDTR-
5	GND	6	MDSR-
7	MRTS-	8	MCTS-
9	MRI-	10	---



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.

