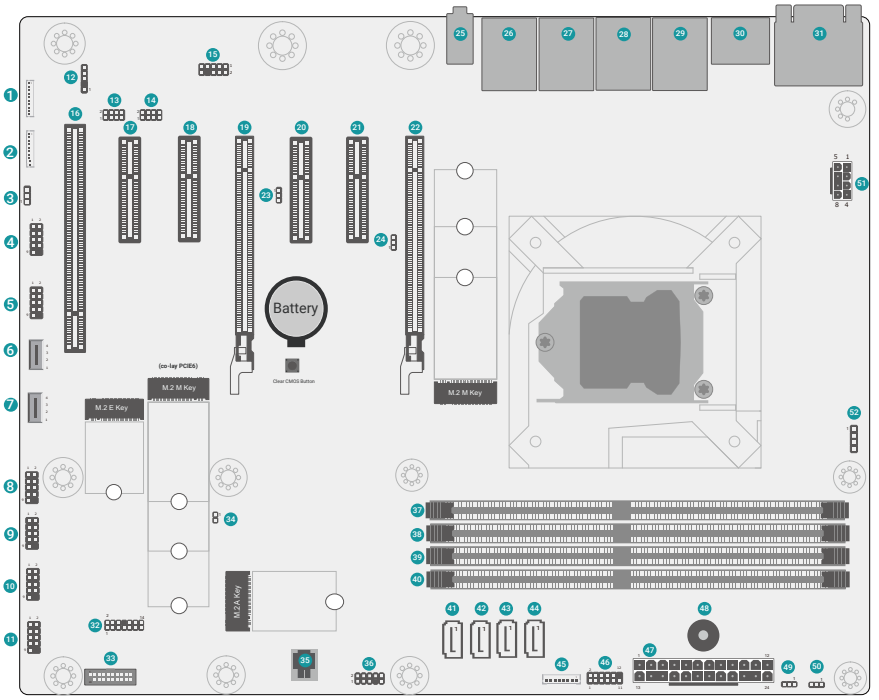
Board Layout

Top View



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1. DIO1
2. DIO2
3. System Fan1
4. COM1
5. COM2
6. USB2_11
7. USB2_12/13
8. COM3
9. COM4
10. COM5
11. COM6
12. S/PDIF
13. LAN LED Header
14. LAN LED Header
15. Front Audio
16. PCI
17. PCIE6 (PCIEx4, co-lay M.2-M2)
18. PCIE5 (PCIEx4)
19. PCIE4 (PCIEx16)
20. PCIE3 (PCIEx4)
21. PCIE2 (PCIEx4)
22. PCIE1 (PCIEx16)
23. CLKREQ/PRSNT Select 2
24. CLKREQ/PRSNT Select 1
25. ▲Line-Out
▼Mic-In
26. ▲LAN4
▼USB2_7/8
USB3_7/8
27. ▲LAN3
▼USB2_5/6
USB3_5/6
28. ▲LAN2
▼USB2_3/4
USB3_3/4
29. ▲LAN1
▼USB2_1/2
USB3_1/2
30. DP++
31. ▲VGA
▼HDMI
32. eSPI
33. USB2_9/10, USB3_9/10
34. Case Open
35. SPI
36. PS2 KB/MS
37. DIMM1
38. DIMM2
39. DIMM3

40 DIMM4

41 SATA3

42 SATA2

43 SATA1

44 SATA0

45 SMBus & I2C Connector

46 Front Panel

47 ATX Power

48 Buzzer

49 System Fan2

50 System Fan3

51 +12V Power

52 CPU Fan1

Jumper Settings

23 CLKREQ/PRSNT Select 2	CLKREQ_SEL2
CLKREQ	1-2 ON
PRSNT(default)	2-3 ON

24 CLKREQ/PRSNT Select 1	CLKREQ_SEL1
CLKREQ	1-2 ON
PRSNT(default)	2-3 ON

PIN Assignment

3 ▶ System Fan1 (SYS_FAN1)

Pin	Assignment
1	GND
2	PWM
3	TACH

50 ▶ System Fan2 (SYS_FAN2)

Pin	Assignment
1	GND
2	PWM
3	TACH

51 ▶ System Fan3 (SYS_FAN3)

Pin	Assignment
1	GND
2	PWM
3	TACH

35 ▶ Case Open (C_INTRUSION1)

Pin	Assignment
1	Case Open-
2	GND

53 ▶ CPU Fan (CPU_FAN1)

Pin	Assignment
1	GND
2	12V
3	RPM
4	CTRL

12 ▶ S/PDIF (SPDIF_HEADER1)

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

46 ▶ SMBus & I2C Connector (SMBUS1)

Pin	Assignment	Pin	Assignment
1	3V3DU	2	GND
3	SMB_CLK_RESUME	4	SMB_DATA_RESUME
5	SMBALERT_PCH-	6	I2C_CLK_PCH
7	I2C_SDA_PCH	8	I2C_INT_PCH

13 ▶ LAN LED Header (JP1)

Pin	Assignment	Pin	Assignment
1	LAN3 SPEED 2.5G	2	LAN3 SPEED 1G
3	LAN3 ACTIVE	4	3.3V_LAN3
5	LAN4 SPEED 2.5G	6	LAN4 SPEED 1G
7	LAN4 ACTIVE	8	3.3V_LAN4

14 ▶ LAN LED Header (JP2)

Pin	Assignment	Pin	Assignment
1	LAN1 SPEED 2.5G	2	LAN1 SPEED 1G
3	LAN1 ACTIVE	4	3.3V_LAN1
5	LAN2 SPEED 2.5G	6	LAN2 SPEED 1G
7	LAN2 ACTIVE	8	3.3V_LAN2

4 ▶ COM1 (COM1)

Pin	Assignment	Pin	Assignment
1	MDCD1-/ RS422_RX+ / RS485_D+	2	MSIN1-/ RS422_RX- / RS485_D-
3	MSO1-/RS422_TX+	4	MDTR1-/RS422_TX-
5	GND	6	MDSR1-
7	MRTS1-	8	MCTS1-
9	MRI1-	10	----

5 ▶ COM2 (COM2)

Pin	Assignment	Pin	Assignment
1	MDCD2-/ RS422_RX+ / RS485_D+	2	MSIN2-/ RS422_RX- / RS485_D-
3	MSO2-/RS422_TX+	4	MDTR2-/RS422_TX-
5	GND	6	MDSR2-
7	MRTS2-	8	MCTS2-
9	MRI2-	10	----

8 ▶ COM3 (COM3)

Pin	Assignment	Pin	Assignment
1	MDCD-	2	MSIN-
3	MSO-	4	MDTR-
5	GND	6	MDSR-
7	MRTS-	8	MCTS-
9	MRI-/5V/12V	10	----

9 ▶ COM4 (COM4)

Pin	Assignment	Pin	Assignment
1	MDCD-	2	MSIN-
3	MSO-	4	MDTR-
5	GND	6	MDSR-
7	MRTS-	8	MCTS-
9	MRI-/5V/12V	10	----

10 ▶ COM5 (COM5)

Pin	Assignment	Pin	Assignment
1	MDCD-	2	MSIN-
3	MSO-	4	MDTR-
5	GND	6	MDSR-
7	MRTS-	8	MCTS-
9	MRI-/5V/12V	10	----

11 ▶ COM6 (COM6)

Pin	Assignment	Pin	Assignment
1	MDCD-	2	MSIN-
3	MSO-	4	MDTR-
5	GND	6	MDSR-
7	MRTS-	8	MCTS-
9	MRI-/5V/12V	10	----

6 ▶ USB2_11 (U27)

Pin	Assignment
1	+5V_USB2
2	DATA-
3	DATA+
4	GND

7 ▶ USB2_12/13 (U33)

Pin	Assignment
1	+5V_USB2
2	DATA-
3	DATA+
4	GND

1 ▶ DIO_Connector1 (J1)

Pin	Assignment
1	DI_3
2	DI_2
3	DI_1
4	DI_0
5	DO_3
6	DO_2
7	DO_1
8	DO_0
9	5V
10	GND

2 ▶ DIO_Connector2 (J2)

Pin	Assignment
1	NC
2	NC
3	NC
4	NC
5	DO_7
6	DO_6
7	DO_5
8	DO_4
9	5V
10	GND

15 ▶ Front Audio (F_AUDIO1)

Pin	Assignment	Pin	Assignment
1	MIC2_L	2	A_GND
3	MIC2_R	4	HP_MIC_COMBO
5	LINE2_R	6	MIC2_JD
7	A_GND	8	NC
9	LINE2_L	10	LINE2_JD

37 ▶ PS2 KB/MS (KB/MS1)

Pin	Assignment	Pin	Assignment
1	KB_CLK	2	MS_CLK
3	KB_DATA	4	MS_DATA
5	GND	6	GND
7	----	8	GND
9	5V_DUAL	10	5V_DUAL

47 ▶ Front Panel (F_PANEL1)

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

33 ▶ eSPI (ESPI_DEBUG1)

Pin	Assignment	Pin	Assignment
1	3V3SB	2	ESPI_CLK
3	ESPI_RESET#	4	GND
5	ESPI_ALT#	6	GND
7	ESPI_D0	8	---
9	ESPI_D1	10	ESPI_CS
11	ESPI_D2	12	3V3SB
13	ESPI_D3	14	3V3SB

34 ▶ USB3.0 (USB3F1)

Pin	Assignment	Pin	Assignment
1	+5V_KBVCC	11	DATA+
2	RX_DATA-	12	DATA-
3	RX_DATA+	13	GND
4	GND	14	TX_DATA+
5	TX_DATA-	15	TX_DATA-
6	TX_DATA+	16	GND
7	GND	17	RX_DATA+
8	DATA-	18	RX_DATA-
9	DATA+	19	+5V_KBVCC
10	NC	20	----

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.