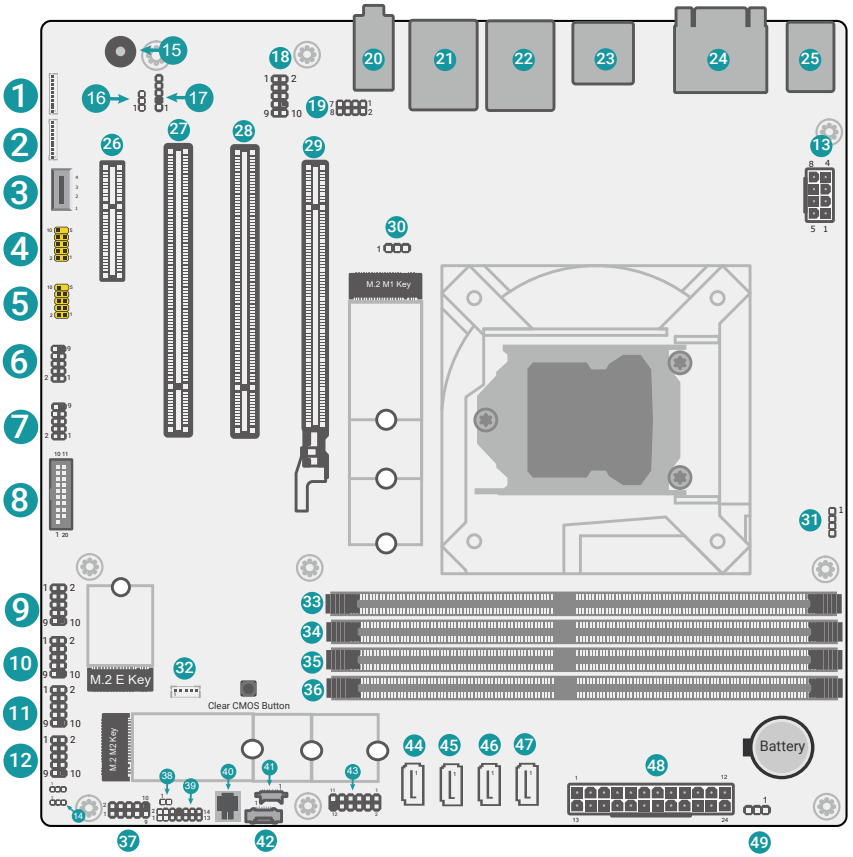
Board Layout

Top View



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1. DIO (4 IN 4 OUT)
2. DIO (4 OUT)
3. USB2_9
4. USB2_10/11
5. USB2_12/13
6. USB2_14
7. USB2_5/6
8. USB3_5/6
   USB2_5/6
9. COM2
10. COM3
11. COM4
12. COM5
13. +12V Power
14. M2CN3 Power Select
15. Buzzer
16. System Fan1
17. S/PDIF
18. Front Audio
19. Front LAN LED
20. ▲Line-Out
    ▼Mic-In
21. ▲LAN2
    ▼USB2_3/4
    USB3_3/4
22. ▲LAN1
    ▼USB2_1/2
    USB3_1/2
23. ▲DP++
    ▼HDMI
24. VGA
25. ▲PS2 (mini-DIN-6)
    ▼USB2_7/8
26. PCIe x4
27. PCI2
28. PCI1
29. PCIe x16
30. M2CN5 Power Select
31. CPU Fan
32. OOB I2C Connector
33. DIMM1
34. DIMM2
35. DIMM3
36. DIMM4
37. COM6
38. Case Open
39. ESPI Header
40. SPI

41 SMBus & I2C Connector

42 EXT-OOB Connector

43 Front Panel

44 SATA3

45 SATA2

46 SATA1

47 SATA0

48 ATX Power

49 System Fan2

Jumper Settings

30 M2CN5 Power Select	JP31
3V3 (default)	1-2 ON
3V3DU	2-3 ON

14 M2CN3 Power Select	JP32
3V3 (default)	1-2 ON
3V3DU	2-3 ON

PIN Assignment

16 ▶ System Fan1 (J7)

Pin	Assignment
1	GND
2	PWM
3	TACH

49 ▶ System Fan2 (J22)

Pin	Assignment
1	GND
2	PWM
3	TACH

3 ▶ USB2_9 (UBCN3)

Pin	Assignment
1	5VDU
2	USB2_9N
3	USB2_9P
4	GND

38 ▶ Case Open (SOJ1)

Pin	Assignment
1	Case Open#
2	GND

31 ▶ CPU Fan (J8)

Pin	Assignment
1	GND
2	12V
3	RPM
4	CTRL

17 ▶ S/PDIF (AUJ1)

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

19 ▶ Front LAN LED (ETJ2)

Pin	Assignment
1	LED_SPEED_2500#
2	LED_SPEED_1000#
3	GBE_LED_LINK_ACT#
4	3V3DU
5	LED_SPEED_2500#2
6	LED_SPEED_1000#2
7	GBE_LED_LINK_ACT#2
8	3V3DU

9 ▶ COM2 (TSJ2)

Pin	Assignment
1	MDCD-/RS422_RX+/RS485_Data+
2	MSIN-/RS422_RX-/RS485_Data-
3	MSO-/RS422_TX+
4	MDTR-/RS422_TX-
5	GND
6	MDSR-
7	MRTS-
8	MCTS-
9	MRI- (With 5V/12V by BIOS options)

41 ▶ SMBus & I2C Connector (J37)

Pin	Assignment	Pin	Assignment
1	3V3DU	2	GND
3	SMB_CLK_RESUME	4	SMB_DATA_RESUME
5	SMBALERT_PCH-	6	I2C2_SCL
7	I2C2_SDA	8	I2C2_INT

13 ▶ +12 Power (CN8000)

Pin	Assignment
1	GND_1
2	GND_2
3	GND_3
4	GND_4
5	12V_1
6	12V_2
7	12V_3
8	12V_4

42 ▶ EXT-OOB Connector (J38)

Pin	Assignment	Pin	Assignment
1	GPI_SPI_SW	2	SPI_SI-R
3	SPI_SO-R	4	SPI_CLK-R
5	SPI_CS0-	6	GND
7	3V3DU		

10 ▶ COM3 (TSJ3)

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

11 ▶ COM4 (TSJ4)

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

12 ▶ COM5 (TSJ5)

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

37 ▶ COM6 (TSJ6)

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

18 ▶ Front Audio (AUJ2)

Pin	Assignment	Pin	Assignment
1	MIC2_L	2	GND
3	MIC2_R	4	NC
5	LINE2_R	6	MIC_JD
7	GND	8	---
9	LINE_L	10	LINE_JD

43 ▶ Front Panel (J18)

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	---

1 ▶ DIO(4 IN 4 OUT) (J34)

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(4 OUT) (J36)

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

47 ▶ SATA0 (J31)

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

46 ▶ SATA1 (J32)

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

45 ▶ SATA2 (J17)

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

44 ▶ SATA3 (J23)

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

48 ▶ ATX Power (CN11)

Pin	Assignment	Pin	Assignment
1	3.3V_1	2	3.3V_2
3	GND1	4	5V_1
5	GND2	6	5V_2
7	GND3	8	POK
9	5VSB	10	12V_1
11	12V_2	12	3.3V_3
13	3.3V_4	14	-12V
15	GND4	16	PSON#
17	GND5	18	GND6
19	GND7	20	NC
21	5V_3	22	5V_4
23	5V_5	24	GND8

4 ▶ USB2_10/11 (UBJ2)

Pin	Assignment	Pin	Assignment
1	5VDU	2	5VDU
3	USB2_10N	4	USB2_11N
5	USB2_10P	6	USB2_11P
7	GND	8	GND
9	---	10	NC

5 ▶ USB2_12/13 (UBJ3)

Pin	Assignment	Pin	Assignment
1	5VDU	2	5VDU
3	USB2_12N	4	USB2_13N
5	USB2_12P	6	USB2_13P
7	GND	8	GND
9	---	10	NC

39 ▶ ESPI Header (J35)

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

32 ▶ OOB I2C Connector (J39)

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

7 ▶ USB2_5/6 (UBJ4)

Pin	Assignment	Pin	Assignment
1	5VDU	2	5VDU
3	USB2_5N	4	USB2_6N
5	USB2_5P	6	USB2_6P
7	GND	8	GND
9	---	10	NC

6 ▶ USB2_14 (UBJ5)

Pin	Assignment	Pin	Assignment
1	5VDU	2	5VDU
3	USB2_14N	4	NC
5	USB2_14P	6	NC
7	GND	8	GND
9	---	10	NC

8 ▶ USB3_5/6 ▶ USB2_5/6 (UBJ1)

Pin	Assignment	Pin	Assignment
1	5VDU	2	USB3_RX5N
3	USB3_RX5P	4	GND
5	USB3_TX5N	6	USB3_TX5P
7	GND	8	USB2_5N
9	USB2_5P	10	Reserve 5V/GND
11	USB2_6P	12	USB2_6N
13	GND	14	USB3_TX6P
15	USB3_TX6N	16	GND
17	USB3_RX6P	18	USB3_RX6N
19	5VDU	20	---

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