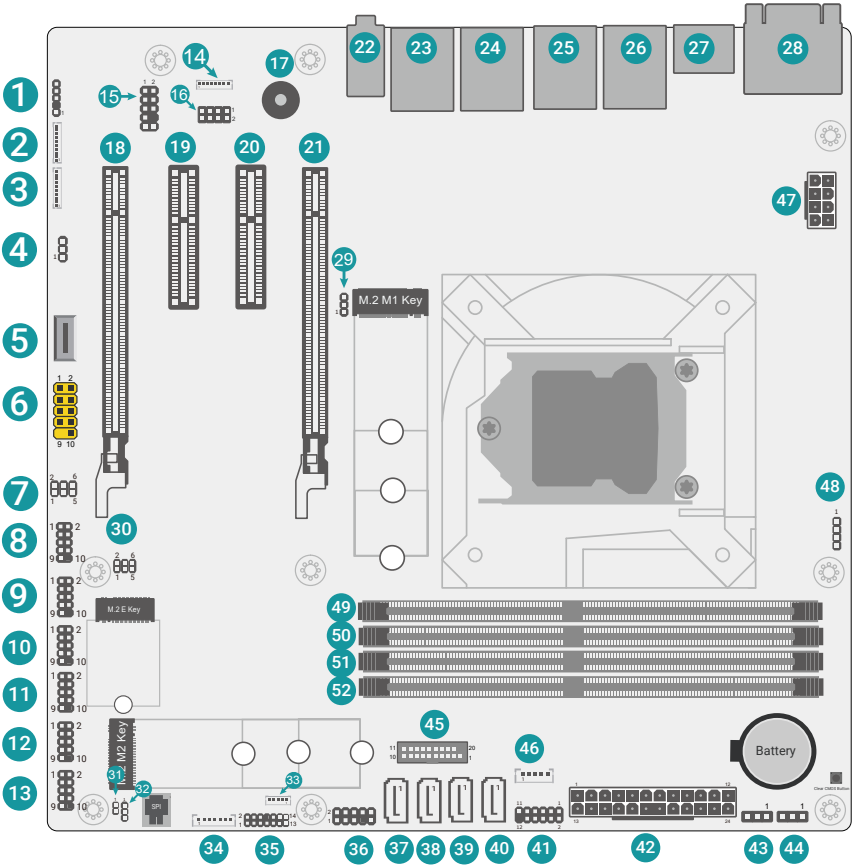
## Board Layout

### Top View

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1. S/PDIF
2. DIO
3. DIO
4. System Fan1
5. USB2.0 Vertical Type A
6. USB2_11/12
7. Power Selection COM1
8. COM1
9. COM2
10. COM3
11. COM4
12. COM5
13. COM6
14. SMBUS/I2C
15. Front Audio
16. LAN Front Panel
17. Buzzer
18. PCIe x16
19. PCIe x4
20. PCIe x4
21. PCIe x16
22. ▲Line-Out<br>▼Mic-In
23. ▲10G_LAN2<br>▼USB2_9/10<br>USB3_9/10
24. ▲10G_LAN1<br>▼USB2_7/8<br>USB3_7/8
25. ▲LAN2<br>▼USB2_3/4<br>USB3_3/4
26. ▲LAN1<br>▼USB2_1/2<br>USB3_1/2
27. DP++
28. ▲VGA<br>▼HDMI
29. M2CN1(M2M_GEN5) Power Select
30. Power Selection COM2
31. CASE OPEN
32. M2CN2 (M2M_GEN4) Power Select
33. OOB I2C Connector
34. EXT_OOB
35. eSPI Header
36. PS/2
37. SATA3
38. SATA2
39. SATA1

40 SATA0

41 Front Panel

42 ATX Power

43 System Fan2

44 System Fan3

45 USB3_5/6 Header

46 SATA Power

47 12V ATX Power

48 CPU Fan

49 DIMM1

50 DIMM2

51 DIMM3

52 DIMM4

## Jumper Settings

| 29 M2CN1 (M2M_GEN5) Power Select | JP4 |
|---|---|
| 3V3 (default) | 1-2 ON |
| 3V3DU | 2-3 ON |

| 32 M2CN2 (M2M_GEN4) Power Select | JP5 |
|---|---|
| 3V3 (default) | 1-2 ON |
| 3V3DU | 2-3 ON |

| 7 Power Select COM1 | JP27 |
|---|---|
| RS232 with 12V Power | 1-2 ON |
| RS232 Standard (default) | 3-4 ON |
| RS232 with 5V Power | 5-6 ON |

| 30 Power Select COM2 | JP28 |
|---|---|
| RS232 with 12V Power | 1-2 ON |
| RS232 Standard (default) | 3-4 ON |
| RS232 with 5V Power | 5-6 ON |

# PIN Assignment

## 4 ▶ System Fan1 (J32)

| Pin | Assignment |
|---|---|
| 1 | GND |
| 2 | PWM |
| 3 | TACH |

## 43 ▶ System Fan2 (J22)

| Pin | Assignment |
|---|---|
| 1 | GND |
| 2 | PWM |
| 3 | TACH |

## 44 ▶ System Fan3 (J30)

| Pin | Assignment |
|---|---|
| 1 | GND |
| 2 | PWM |
| 3 | TACH |

## 31 ▶ Case Open (SOJ1)

| Pin | Assignment |
|---|---|
| 1 | V_BAT_CASE |
| 2 | GND |

## 48 ▶ CPU Fan (J8)

| Pin | Assignment |
|---|---|
| 1 | GND |
| 2 | 12V |
| 3 | RPM |
| 4 | CTRL |

## 1 ▶ S/PDIF (AUJ1)

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

## 46 ▶ SATA Power (CN8)

| Pin | Assignment |
|---|---|
| 1 | 5V_SATA |
| 2 | 5V_SATA |
| 3 | +12V_SATA |
| 4 | GND |
| 5 | GND |

## 33 ▶ OOB I2C connector (J39)

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

## 40 ▶ SATA0 (J4)

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

## 39 ▶ SATA1 (J3)

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

## 38 ▶ SATA2 (J2)

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

## 37 ▶ SATA3 (J1)

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

## 16 ▶ LAN Front Panel (ETJ1)

| Pin | Assignment | Pin | Assignment |
|---|---|---|---|
| 1 | LAN1_2.5G_SPEED_LED | 2 | LAN1_1G_SPEED_LED |
| 3 | LAN1_Active_LED | 4 | 3V3_Standby |
| 5 | LAN2_2.5G_SPEED_LED | 6 | LAN2_1G_SPEED_LED |
| 7 | LAN2_Active_LED | 8 | 3V3_Standby |

## 15 ▶ 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 | NC |
| 9 | LINE2-L | 10 | LINE2-JD |

## 6 ▶ USB2_11/12 (UBJ2)

| Pin | Assignment | Pin | Assignment |
|---|---|---|---|
| 1 | 5VSB | 2 | 5VSB |
| 3 | USB2_11_N | 4 | USB2_12_N |
| 5 | USB2_11_P | 6 | USB2_12_P |
| 7 | GND | 8 | GND |
| 9 | NC | 10 | NC |

## 34 ▶ EXT_OOB (J38)

| Pin | Assignment |
|---|---|
| 1 | EXT_SPI_SW |
| 2 | EXT_MOSI |
| 3 | EXT_MISO |
| 4 | EXT_CLK |
| 5 | EXT_CS0 |
| 6 | GND |
| 7 | 3V3_SPI |

## 14 ▶ SMBUS/I2C (J12)

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

## 7 ▶ Power Selection COM1 (JP27)

| Pin | Assignment | Pin | Assignment |
|---|---|---|---|
| 1 | 5V_12V_COM1 | 2 | +12V |
| 3 | 5V_12V_COM1 | 4 | COM1_RI- |
| 5 | 5V_12V_COM1 | 6 | 5V |

## 30 ▶ Power Selection COM2 (JP28)

| Pin | Assignment | Pin | Assignment |
|---|---|---|---|
| 1 | 5V_12V_COM1 | 2 | +12V |
| 3 | 5V_12V_COM1 | 4 | COM2_RI- |
| 5 | 5V_12V_COM1 | 6 | 5V |

## 8 ▶ COM1 (TSJ2)

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

## 9 ▶ COM2 (TSJ3)

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

## 10 ▶ COM3 (TSJ4)

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

## 11 ▶ COM4 (TSJ5)

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

## 12 ▶ COM5 (TSJ6)

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

## 13 ▶ COM6 (TSJ7)

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

## 2 ▶ DIO (J6)

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

## 3 ▶ DIO (J7)

| Pin | Assignment |
|---|---|
| 1 | NC |
| 2 | NC |
| 3 | NC |
| 4 | NC |
| 5 | DO7 |
| 6 | DO6 |
| 7 | DO5 |
| 8 | DO4 |
| 9 | 5VSB |
| 10 | GND |

## 41 ▶ Front Panel (J9)

| 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 | NC |

## 35 ▶ eSPI (J31)

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

## 45 ▶ USB3_5/6 (UBJ1)

| Pin | Assignment | Pin | Assignment |
|---|---|---|---|
| 1 | 5VSB | 11 | USBP_6P |
| 2 | USB3_RX5_DN | 12 | USBP_6N |
| 3 | USB3_RX5_DP | 13 | GND |
| 4 | GND | 14 | USB3_TX6_DP |
| 5 | USB3_TX5_DN | 15 | USB3_TX6_DN |
| 6 | USB3_TX5_DP | 16 | GND |
| 7 | GND | 17 | USB3_RX6_DP |
| 8 | USBP_5N | 18 | USB3_RX6_DN |
| 9 | USBP_5P | 19 | 5VSB |
| 10 | NC | 20 | NC |

## 36 ▶ PS/2 (SOJ2)

| Pin | Assignment | Pin | Assignment |
|---|---|---|---|
| 1 | PS2_KCLK | 2 | PS2_MCLK |
| 3 | PS2_KDAT | 4 | PS2_MDAT |
| 5 | GND | 6 | GND |
| 7 | NC | 8 | GND |
| 9 | 5V | 10 | 5V |

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