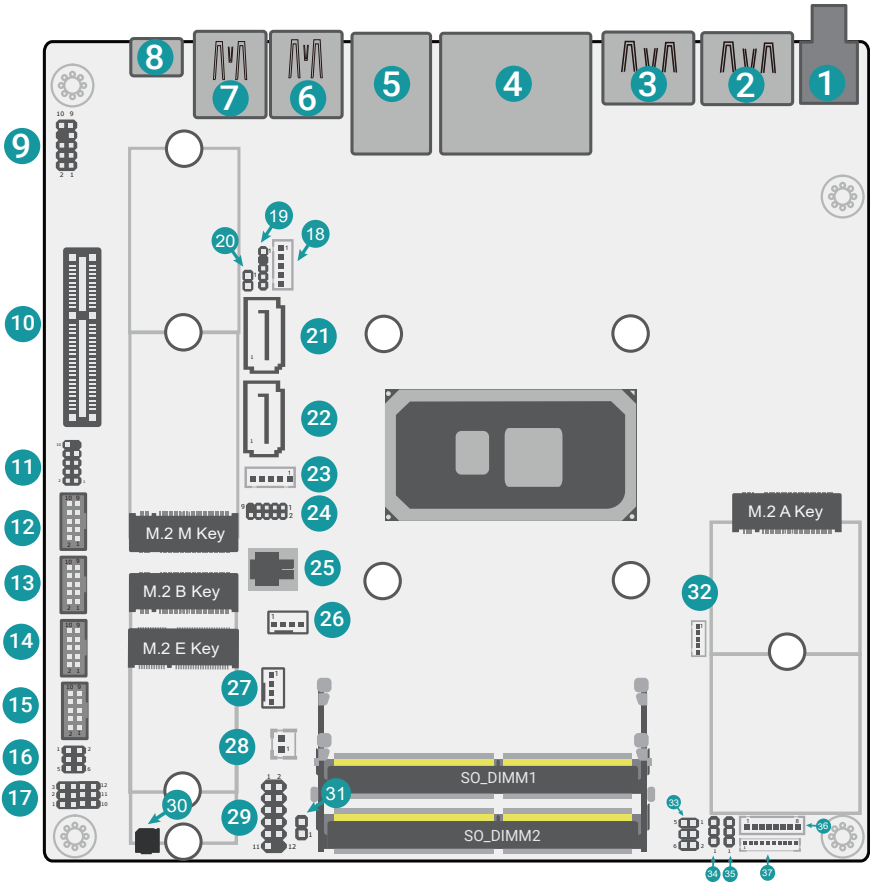


## Board Layout

Top View



1	DC-in	21	SATA0
2	DP/HDMI	22	SATA1
3	DP/HDMI	23	SATA Power
4	LAN1 & LAN2	24	USB2.0
5	LAN3	25	SPI
6	USB3.2 Gen2	26	CPU Fan
7	USB3.2 Gen2	27	System Fan
8	USB Type C	28	RTC Battery
9	Front Audio	29	Front Panel
10	PCIE Gen 4x4	30	Buzzer
11	USB2.0	31	Case Open
12	COM1	32	SMBus
13	COM2	33	VCC Panel Power Select
14	COM3	34	Inverter Panel Power Select
15	COM4	35	Panel Backlight ON Level Select
16	COM3 Power Select	36	Backlight CON
17	COM4 DIO & COM4 Select	37	DIO
18	SATA Power		
19	UART Header (Debug)		
20	Clear CMOS Data		

## Jumper Settings

20 Clear CMOS Data	SW1
Normal (Default)	1-2 Open
Clear CMOS Data	1-2 Short

35 Panel Backlight ON Level Select	DPJP4
3V3 (Default)	1-2 Short
5V	2-3 Short

34 Inverter Panel Power Select	DPJP2
12V	1-2 Short
5V (Default)	2-3 Short

33 VCC Panel Power Select	DPJP3
12V	1-2 Short
5V	3-4 Short
3V3 (Default)	5-6 Short

17 COM4 DIO & COM4 Select	JP1
COM Port Function (Default)	1-2,4-5,7-8,10-11 Short
4bit DIO Function	2-3,5-6,8-9,11-12 Short

16 COM3 Power Select	JP2
RS232 Standard (Default)	1-3, 2-4 Short
RS232 with Power	3-5, 4-6 Short

## PIN Assignment

### 28 ▶ RTC Battery (J1)

Pin	Assignment
1	V_BAT
2	GND

### 31 ▶ Case Open (J24)

Pin	Assignment
1	CASEOPEN-
2	GND

### 27 ▶ System Fan (CN25)

Pin	Assignment
1	GND
2	+12V
3	PWM
4	TACH

### 26 ▶ CPU Fan (CN24)

Pin	Assignment
1	GND
2	+12V
3	PWM
4	TACH

### 23 ▶ UART Header (Debug) (J21)

Pin	Assignment
1	GND
2	NC
3	3V3SB
4	DEBUG_UART_TX
5	DEBUG_UART_RX

### 32 ▶ SMBus (J16)

Pin	Assignment
1	3V3SB
2	GND
3	SMB_CLK_RESUME
4	SMB_DATA_RESUME
5	SMB_ALERT#

### 23 ▶ SATA POWER (J18)

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

### 18 ▶ SATA POWER (J19)

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

### 21 ▶ SATA0 (J12)

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

### 22 ▶ SATA1 (J13)

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

### 36 ▶ Backlight CON (DPJ1)

Pin	Assignment
1	GND
2	GND
3	PWM
4	VCC_PANEL_PWR
5	LVDS_3V3
6	BLONOFF
7	INV_PWR
8	INV_PWR

### 37 ▶ DIO (J15)

Pin	Assignment
1	D_IOA7
2	D_IOA6
3	D_IOA5
4	D_IOA4
5	D_IOA3
6	D_IOA2
7	D_IOA1
8	D_IOA0
9	5VSB
10	GND

### 9 ▶ Front Audio (AUJ1)

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

### 24 ▶ USB2.0 Pin Header (UBJ1)

Pin	Assignment	Pin	Assignment
1	5V	2	5V
3	USB2_4_C_N	4	USB2_3_C_N
5	USB2_4_C_P	6	USB2_3_C_P
7	GND	8	GND
9	----	10	NC

### 11 ▶ USB2.0 Pin Header (UBJ2)

Pin	Assignment	Pin	Assignment
1	5V	2	5V
3	USB2_4_C_N	4	USB2_3_C_N
5	USB2_4_C_P	6	USB2_3_C_P
7	GND	8	GND
9	----	10	NC

### 16 ▶ COM3 Power Select (JP2)

Pin	Assignment	Pin	Assignment
1	MRI-	2	MDCD-
3	X_MRI-	4	X_MDCD-
5	5V	6	12V

## 12 ► COM1 (TSJ1)

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 ► COM2 (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

## 14 ► COM3 RS232 (J5)

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

## 15 ► COM4 RS232 (J6)

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

## 29 ► Front Panel (J17)

Pin	Assignment	Pin	Assignment
1	NC	2	3V3SB
3	3V3	4	3V3SB
5	HD_LED#	6	SUS_LED#
7	GND	8	GND
9	SYS_RST0	10	PWR_BTN0
11	NC	12	---

## 17 ► COM4 DIO & COM4 Select (JP1)

Pin	Assignment	Pin	Assignment
1	MDCD4#	2	X_MDCD4#
3	SIO_DIO0	4	MSIN4#
5	X_MSIN4#	6	SIO_DIO1
7	MSO4#	8	X_MSO4#
9	SIO_DIO2	10	MDTR4#
11	X_MDTR4#	12	SIO_DIO3



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