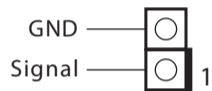
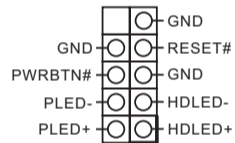


19 : Chassis Intrusion Headers
C11:
 Close: Active Case Open
 Open: Normal
C12:
 Close: Normal
 Open: Active Case Open



20 : System Panel Header



21 : Internal COM Port Headers
 COM1, 2 (RS232)
 COM3, 4 (RS232/422/485)

PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
10	N/A	8	CCTS#	6	DDSR#	4	DDTR#
9	PWR	7	RRTS#	5	GND	3	TTXD
						2	RRXD
						1	DDCD#

* This motherboard supports RS232/422/485 on COM3, 4 ports. Please refer to below table for the pin definition. In addition, COM3, 4 ports (RS232/422/485) can be adjusted in BIOS setup utility > Advanced Screen > Super IO Configuration. You may refer to our user manual for details.

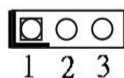
COM3, 4 Port Pin Definition

PIN	RS232	RS422	RS485
1	DCD	TX-	RTX-
2	RXD	TX+	RTX+
3	TXD	RX+	N/A
4	DTR	RX-	N/A
5	GND	GND	GND
6	DSR	N/A	N/A
7	RTS	N/A	N/A
8	CTS	N/A	N/A
9	PWR	PWR	PWR
10	N/A	N/A	N/A

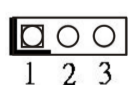
22 : SIO_AT1
 Open : ATX Mode
 Short : AT Mode



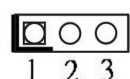
23 : COM Port PWR Setting Jumpers
 PWR_COM1 (For COM Port1)
 PWR_COM2 (For COM Port2)
 PWR_COM3 (For COM Port3)
 PWR_COM4 (For COM Port4)
 1-2 : +5V
 2-3 : +12V



24 : Digital Input / Output Default Value Setting (JGPIO_SET1)
 1-2: Pull-High
 2-3: Pull-Low



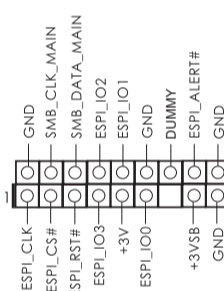
25 : Digital Input / Output Power Select (JGPIO_PWR) (JGPIO_PWR1)
 1-2: +12V
 2-3: +5V



26 : Digital Input/Output Pin Header (JGPIO1)

PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
2	SOC_D00	4	SOC_D01	6	SOC_D02	8	SOC_D03
1	SIO_GP34	3	SIO_GP35	5	SIO_GP36	7	SIO_GP37
						9	JGPIO_PWR

27 : ESPI Header



28 : DAC Jumper (DACC1)
 Open: Normal
 Short: Auto Clear CMOS (Power Off)



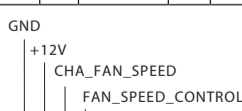
29 : M.2 Key-B Socket (M2_B1)

PIN	Signal	Signal	PIN
1	NA	+3.3V	20
3	GND	+3.3V	4
5	GND	Full Card Power off	6
7	USB D+	W_DISABLE1#	8
9	USB D-	WWAN_LED#	10
11	GND		
21	GND	NA	20
23	NA	NA	22
25	NA	NA	24
27	GND	W_DISABLE2#	26
29	USB3_RX-	NA	28
31	USB3_RX+	UIM_RESET	30
33	GND	UIM_CLK	32
35	USB3_TX-	UIM_DATA	34
37	USB3_TX+	UIM_PWR	36
39	GND	NA	38
41	PERn0	NA	40
43	PERP0	NA	42
45	GND	NA	44
47	PETn0	NA	46
49	PETP0	NA	48
51	GND	PERST#	50
53	PEFCLKn	CLKREQ#	52
55	PEFCLKp	WAKE#	54
57	GND	NA	56
59	NA	NA	58
61	NA	NA	60
63	NA	NA	62
65	NA	NA	64
67	NA	NA	66
69	PEDET	NA	68
71	GND	+3.3V	70
73	GND	+3.3V	72
75	NA	+3.3V	74

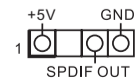
30 : CAN Connector (CAN1_2)

PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
		8	GND	6	CAN2_RX0	4	CAN2_TX0
9	DUMMY	7	GND	5	CAN1_RX0	3	CAN1_TX0
						2	+5VSB
						1	+5VSB

31 : 4-Pin Chassis FAN Connector (+12V)



32 : SPDIF Header



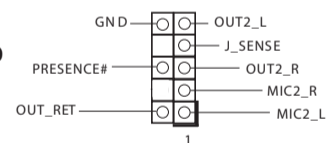
33 : 3W Audio AMP Output Wafer

PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
1	OUTLN	2	OUTLP	3	OUTRP	4	OUTRN

34 : M.2 Key-M Socket (M2_M1)

Pin	Signal	Signal	Pin
1	GND	+3.3V	2
3	GND	+3.3V	4
5	NA	NA	6
7	NA	NA	8
9	GND	SATA_LED	10
11	NA	+3.3V	12
13	NA	+3.3V	14
15	GND	+3.3V	16
17	NA	+3.3V	18
19	NA	NA	20
21	GND	NA	22
23	NA	NA	24
25	NA	NA	26
27	GND	NA	28
29	PERn1	NA	30
31	PERp1	NA	32
33	GND	NA	34
35	PETn1	NA	36
37	PETp1	NA	38
39	GND	NA	40
41	PERn0/SATA-B+	NA	42
43	PERp0/SATA-B-	NA	44
45	GND	NA	46
47	PETn0/SATA-A-	NA	48
49	PETp0/SATA-A+	PERST#	50
51	GND	CLKREQ#	52
53	PEFCLKn	WAKE#	54
55	PEFCLKp	NA	56
57	GND	NA	58
67	NA	NA	68
69	PEDET	+3.3V	70
71	GND	+3.3V	72
73	GND	+3.3V	74
75	GND		

35 : Audio Output: Pink – Mic In
36 : Audio Output: Green – Line Out



37 : Front Panel Audio Header

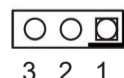
38 : RJ45 LAN Port (LAN2)
39 : RJ45 LAN Port (LAN1)

40 : VGA Header

PIN	Signal Name	PIN	Signal Name
9	DDC_CLK	10	DDC_DATA
7	HSYNC	8	VSYNC
5	BLUE	6	GND
3	GREEN	4	GND
1	RED	2	GND

41 : D-Sub Port (VGA1)

42 : Clear CMOS Jumpers
 CLRMOS1:
 1-2: Normal
 2-3: Clear CMOS
 AUTOCLR1:
 Open: Normal
 Short: Auto Clear CMOS When AC Power On



43 : PWR_BAT2
 Open : Normal
 Short : Charge Battery



44 : USB2.0 Ports (USB2_7_8)
45 : USB3.2 Gen1 Ports (USB3H_0_1)
46 : HDMI Port (HDMI1)
47 : DC Jack (DC_JACK1)