



P/N: 15G06M036000AK V1.0

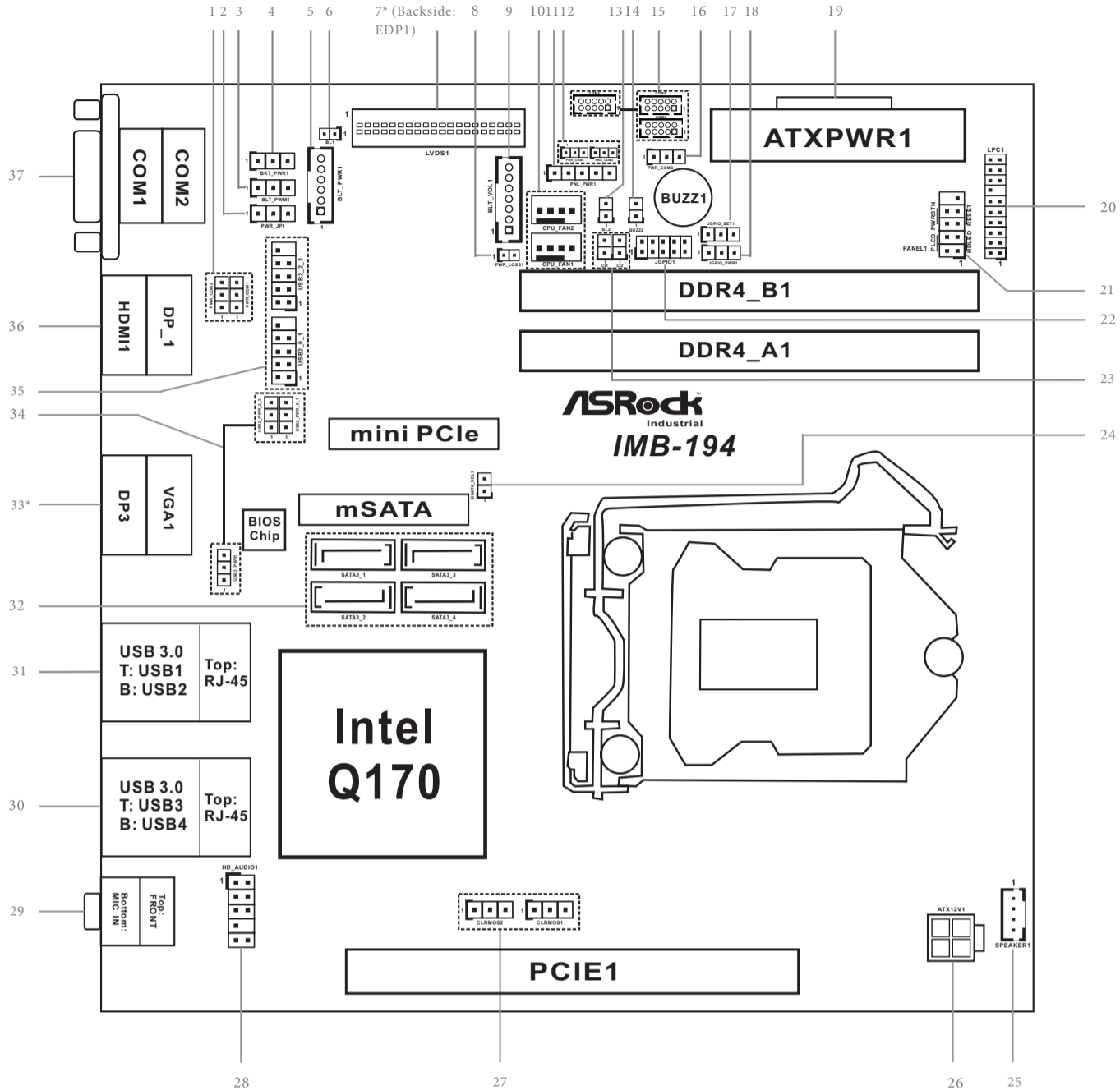


Jumpers and Headers Setting Guide

IMB-194-D

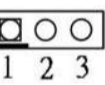
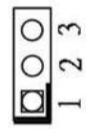
IMB-194-L

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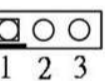


COM Port PWR Setting Jumpers

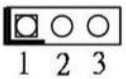
- 1 : PWR_COM1 (For COM Port1)
PWR_COM2 (For COM Port2)
- 12 : PWR_COM4 (For COM Port4)
PWR_COM5 (For COM Port5)
- 16 : PWR_COM3 (For COM Port3)
1-2 : +5V
2-3 : +12V



- 2 : ATX/AT Mode Select (PWR_JP1)
1-2 : AT Mode
2-3 : ATX Mode



- 3 : Backlight Control Level (BLT_PWM1)
1-2 : +3V (eDP)
2-3 : +5V (LVDS)



- 4 : Backlight Power Select (LCD_BLT_VCC) (BKT_PWR1)
1-2 : LCD_BLT_VCC : +5V
2-3 : LCD_BLT_VCC : +12V

PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
1	LCD_VCC	1	LCD_VCC	1	LCD_VCC	1	LCD_VCC	1	LCD_VCC
2	LDDC_CLK	2	LDDC_CLK	2	LDDC_CLK	2	LDDC_CLK	2	LDDC_CLK
3	LVDS_A_DATA0#	3	LVDS_A_DATA0#	3	LVDS_A_DATA0#	3	LVDS_A_DATA0#	3	LVDS_A_DATA0#
4	GND	4	GND	4	GND	4	GND	4	GND
5	LVDS_A_DATA1	5	LVDS_A_DATA1	5	LVDS_A_DATA1	5	LVDS_A_DATA1	5	LVDS_A_DATA1
6	LVDS_A_DATA2#	6	LVDS_A_DATA2#	6	LVDS_A_DATA2#	6	LVDS_A_DATA2#	6	LVDS_A_DATA2#
7	GND	7	GND	7	GND	7	GND	7	GND
8	LVDS_A_DATA3	8	LVDS_A_DATA3	8	LVDS_A_DATA3	8	LVDS_A_DATA3	8	LVDS_A_DATA3
9	LVDS_A_CLK#	9	LVDS_A_CLK#	9	LVDS_A_CLK#	9	LVDS_A_CLK#	9	LVDS_A_CLK#
10	GND	10	GND	10	GND	10	GND	10	GND
11	LVDS_B_DATA0#	11	LVDS_B_DATA0#	11	LVDS_B_DATA0#	11	LVDS_B_DATA0#	11	LVDS_B_DATA0#
12	GND	12	GND	12	GND	12	GND	12	GND
13	LVDS_B_DATA1	13	LVDS_B_DATA1	13	LVDS_B_DATA1	13	LVDS_B_DATA1	13	LVDS_B_DATA1
14	LVDS_B_DATA2#	14	LVDS_B_DATA2#	14	LVDS_B_DATA2#	14	LVDS_B_DATA2#	14	LVDS_B_DATA2#
15	GND	15	GND	15	GND	15	GND	15	GND
16	LVDS_B_DATA3	16	LVDS_B_DATA3	16	LVDS_B_DATA3	16	LVDS_B_DATA3	16	LVDS_B_DATA3
17	LVDS_B_CLK#	17	LVDS_B_CLK#	17	LVDS_B_CLK#	17	LVDS_B_CLK#	17	LVDS_B_CLK#
18	GND	18	GND	18	GND	18	GND	18	GND
19	LVDS_B_DATA0#	19	LVDS_B_DATA0#	19	LVDS_B_DATA0#	19	LVDS_B_DATA0#	19	LVDS_B_DATA0#
20	GND	20	GND	20	GND	20	GND	20	GND
21	LVDS_B_DATA1	21	LVDS_B_DATA1	21	LVDS_B_DATA1	21	LVDS_B_DATA1	21	LVDS_B_DATA1
22	GND	22	GND	22	GND	22	GND	22	GND
23	LVDS_B_DATA2#	23	LVDS_B_DATA2#	23	LVDS_B_DATA2#	23	LVDS_B_DATA2#	23	LVDS_B_DATA2#
24	GND	24	GND	24	GND	24	GND	24	GND
25	LVDS_B_DATA3	25	LVDS_B_DATA3	25	LVDS_B_DATA3	25	LVDS_B_DATA3	25	LVDS_B_DATA3
26	LVDS_B_CLK#	26	LVDS_B_CLK#	26	LVDS_B_CLK#	26	LVDS_B_CLK#	26	LVDS_B_CLK#
27	GND	27	GND	27	GND	27	GND	27	GND
28	CON_LBKLT_CTL	28	CON_LBKLT_CTL	28	CON_LBKLT_CTL	28	CON_LBKLT_CTL	28	CON_LBKLT_CTL
29	CON_LBKLT_EN	29	CON_LBKLT_EN	29	CON_LBKLT_EN	29	CON_LBKLT_EN	29	CON_LBKLT_EN
30	GND	30	GND	30	GND	30	GND	30	GND
31	CON_LBKLT_VCC	31	CON_LBKLT_VCC	31	CON_LBKLT_VCC	31	CON_LBKLT_VCC	31	CON_LBKLT_VCC
32	GND	32	GND	32	GND	32	GND	32	GND
33	LCD_BLT_VCC	33	LCD_BLT_VCC	33	LCD_BLT_VCC	33	LCD_BLT_VCC	33	LCD_BLT_VCC
34	GND	34	GND	34	GND	34	GND	34	GND
35	LCD_BLT_VCC	35	LCD_BLT_VCC	35	LCD_BLT_VCC	35	LCD_BLT_VCC	35	LCD_BLT_VCC
36	GND	36	GND	36	GND	36	GND	36	GND
37	LCD_BLT_VCC	37	LCD_BLT_VCC	37	LCD_BLT_VCC	37	LCD_BLT_VCC	37	LCD_BLT_VCC
38	GND	38	GND	38	GND	38	GND	38	GND
39	LCD_BLT_VCC	39	LCD_BLT_VCC	39	LCD_BLT_VCC	39	LCD_BLT_VCC	39	LCD_BLT_VCC

* eDP Connector (For IMB-194-D only)



PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
1	NC	1	NC	1	NC	1	NC	1	NC
2	RRXD	2	RRXD	2	RRXD	2	RRXD	2	RRXD
3	DDTR#	3	DDTR#	3	DDTR#	3	DDTR#	3	DDTR#
4	DDTR#	4	DDTR#	4	DDTR#	4	DDTR#	4	DDTR#
5	DDTR#	5	DDTR#	5	DDTR#	5	DDTR#	5	DDTR#
6	DDTR#	6	DDTR#	6	DDTR#	6	DDTR#	6	DDTR#
7	DDTR#	7	DDTR#	7	DDTR#	7	DDTR#	7	DDTR#
8	DDTR#	8	DDTR#	8	DDTR#	8	DDTR#	8	DDTR#
9	DDTR#	9	DDTR#	9	DDTR#	9	DDTR#	9	DDTR#
10	DDTR#	10	DDTR#	10	DDTR#	10	DDTR#	10	DDTR#
11	DDTR#	11	DDTR#	11	DDTR#	11	DDTR#	11	DDTR#
12	DDTR#	12	DDTR#	12	DDTR#	12	DDTR#	12	DDTR#
13	DDTR#	13	DDTR#	13	DDTR#	13	DDTR#	13	DDTR#
14	DDTR#	14	DDTR#	14	DDTR#	14	DDTR#	14	DDTR#
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16	DDTR#	16	DDTR#	16	DDTR#	16	DDTR#	16	DDTR#
17	DDTR#	17	DDTR#	17	DDTR#	17	DDTR#	17	DDTR#
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21	DDTR#	21	DDTR#	21	DDTR#	21	DDTR#	21	DDTR#
22	DDTR#	22	DDTR#	22	DDTR#	22	DDTR#	22	DDTR#
23	DDTR#	23	DDTR#	23	DDTR#	23	DDTR#	23	DDTR#
24	DDTR#	24	DDTR#	24	DDTR#	24	DDTR#	24	DDTR#
25	DDTR#	25	DDTR#	25	DDTR#	25	DDTR#	25	DDTR#
26	DDTR#	26	DDTR#	26	DDTR#	26	DDTR#	26	DDTR#
27	DDTR#	27	DDTR#	27	DDTR#	27	DDTR#	27	DDTR#
28	DDTR#	28	DDTR#	28	DDTR#	28	DDTR#	28	DDTR#
29	DDTR#	29	DDTR#	29	DDTR#	29	DDTR#	29	DDTR#
30	DDTR#	30	DDTR#	30	DDTR#	30	DDTR#	30	DDTR#
31	DDTR#	31	DDTR#	31	DDTR#	31	DDTR#	31	DDTR#
32	DDTR#	32	DDTR#	32	DDTR#	32	DDTR#	32	DDTR#
33	DDTR#	33	DDTR#	33	DDTR#	33	DDTR#	33	DDTR#
34	DDTR#	34	DDTR#	34	DDTR#	34	DDTR#	34	DDTR#
35	DDTR#	35	DDTR#	35	DDTR#	35	DDTR#	35	DDTR#
36	DDTR#	36	DDTR#	36	DDTR#	36	DDTR#	36	DDTR#
37	DDTR#	37	DDTR#	37	DDTR#	37	DDTR#	37	DDTR#
38	DDTR#	38	DDTR#	38	DDTR#	38	DDTR#	38	DDTR#
39	DDTR#	39	DDTR#	39	DDTR#	39	DDTR#	39	DDTR#
40	DDTR#	40	DDTR#	40	DDTR#	40	DDTR#	40	DDTR#

- 11 : Panel Power Select (LCD_VCC) (PNL_PWR1)
1-2 : LCD_VCC : +3V
2-3 : LCD_VCC : +5V
4-5 : LCD_VCC : +12V



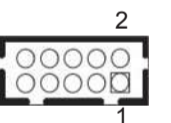
- 13 : BL2



- 14 : Buzzer

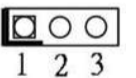


- 15 : COM3, 4, 5 Headers (RS232)

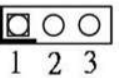


PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
1	NC	1	NC	1	NC	1	NC	1	NC
2	RRXD	2	RRXD	2	RRXD	2	RRXD	2	RRXD
3	DDTR#	3	DDTR#	3	DDTR#	3	DDTR#	3	DDTR#
4	DDTR#	4	DDTR#	4	DDTR#	4	DDTR#	4	DDTR#
5	DDTR#	5	DDTR#	5	DDTR#	5	DDTR#	5	DDTR#
6	DDTR#	6	DDTR#	6	DDTR#	6	DDTR#	6	DDTR#
7	DDTR#	7	DDTR#	7	DDTR#	7	DDTR#	7	DDTR#
8	DDTR#	8	DDTR#	8	DDTR#	8	DDTR#	8	DDTR#
9	DDTR#	9	DDTR#	9	DDTR#	9	DDTR#	9	DDTR#

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



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



- 5 : Inverter Power Control Wafer (BLT_PWR1)

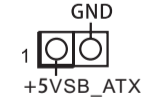


PIN	Signal Name
1	GND
2	GND
3	CON_LBKLT_CTL
4	CON_LBKLT_EN
5	LCD_BLT_VCC
6	LCD_BLT_VCC

- 6 : BL1



- 8 : Power Loss Jumper (PWR_LOSS1)
Open: Power Loss
Close: no Power Loss

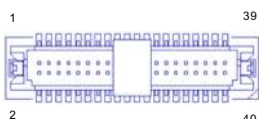


- 9 : Backlight Volume Control (BLT_VOL1)

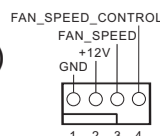


PIN	Signal Name
1	GPIO_VOL_UP
2	GPIO_VOL_DW
3	PWRDN
4	BLT_UP
5	BLT_DW
6	GND
7	GND

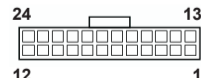
- 7* : LVDS Panel Connector (For IMB-194-L only)



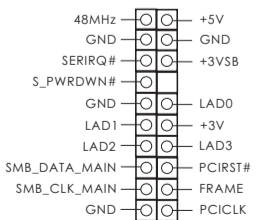
- 10 : 4-Pin CPU FAN Connectors (+12V) (CPU_FAN1, CPU_FAN2)



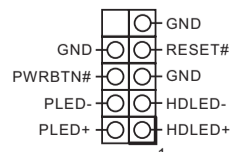
- 19 : 24-pin ATX Power Input Connector

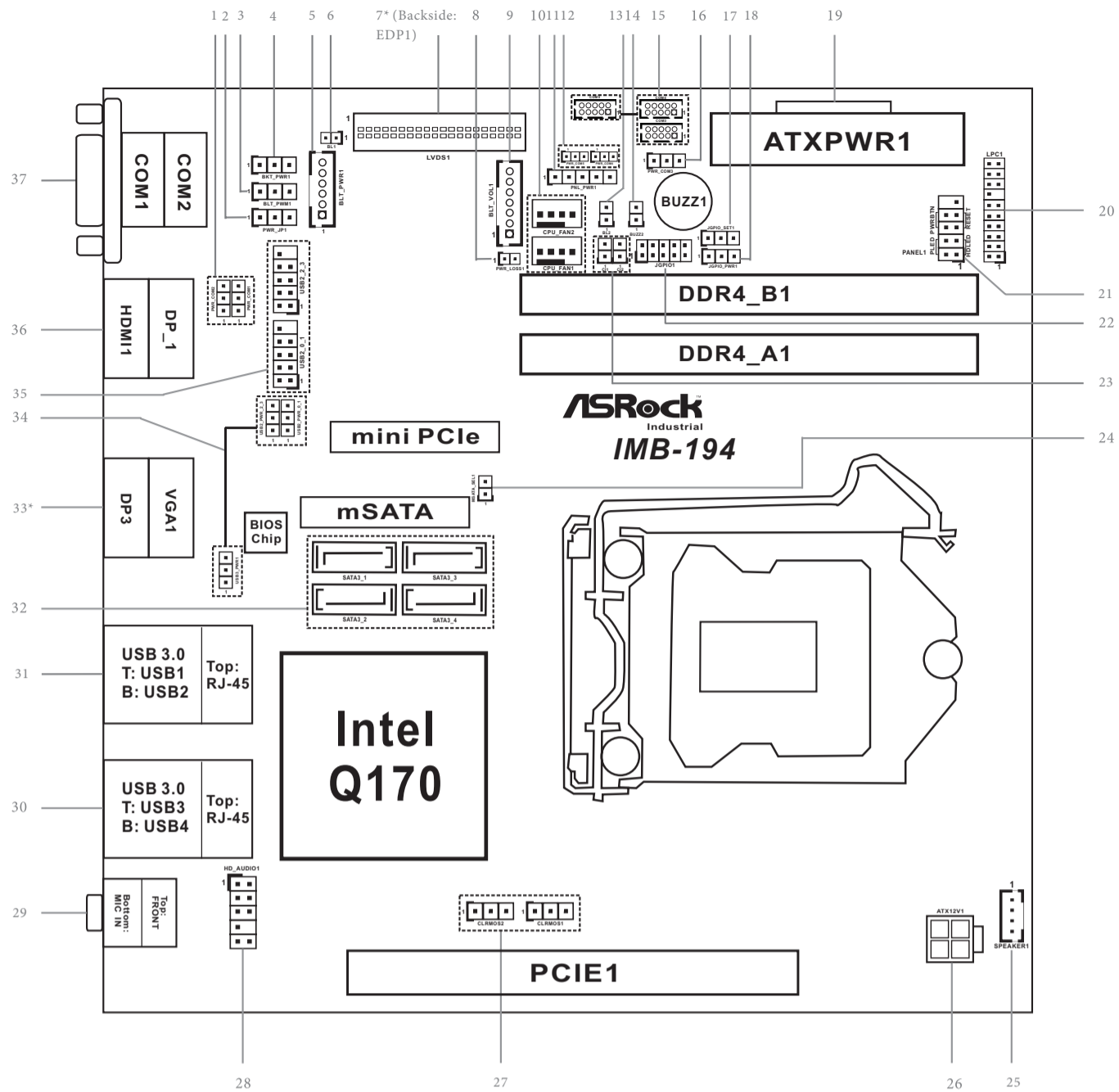


- 20 : LPC Header

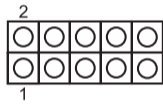


- 21 : System Panel Header





22 : Digital Input/Output Pin Header (JGPIO1)

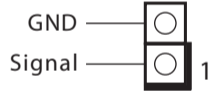


PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
2	SIO_GP20	4	SIO_GP21	6	SIO_GP22	8	SIO_GP23	10	GND
1	SIO_GP24	3	SIO_GP25	5	SIO_GP26	7	SIO_GP27	9	JGPIO_PWR

23 : Chassis Intrusion Headers

C1 :
 Close : Active Case Open
 Open : Normal

C2 :
 Close : Normal
 Open : Active Case Open

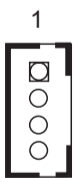


24 : MSATA Select (MSATA_SEL1)

Open : For SATA3_1
 Short : For mSATA

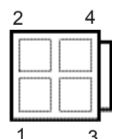


25 : 3W Audio AMP Output Wafer



PIN	Signal Name
1	OUTLN
2	OUTLP
3	OUTRP
4	OUTRN

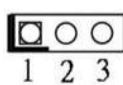
26 : 4-pin ATX Power Input/Output Connector



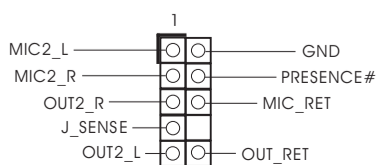
27 : Clear CMOS Headers

CLRMOS1 :
 1-2 : Normal
 2-3 : Clear CMOS

CLRMOS2 :
 1-2 : +BATT
 2-3 : +3VSB_A



28 : Front Panel Audio Header



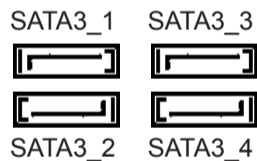
29 : Audio Output

Green - Line Out
 Pink - Mic In

**30 : Top : RJ45 LAN Port (LAN2)
 Bottom : USB3.0 Ports (USB3_34)**

**31 : Top : RJ45 LAN Port (LAN1)
 Bottom : USB3.0 Ports (USB3_12)**

32 : SATA3 Connectors (SATA3_1, SATA3_2, SATA3_3, SATA3_4)

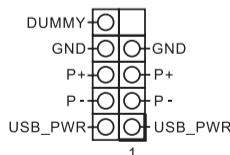


**33* : Top : D-Sub Port (VGA1) (For IMB-194-L only)
 Bottom : DisplayPort (DP3) (For IMB-194-D only)**

34 : USB Power Setting Jumpers (USB2_PWR_0_1 (For USB2_0_1), USB2_PWR_2_3 (For USB2_2_3), USB3_PWR1 (For USB3_12, USB3_34))
 1-2 : +5V
 2-3 : +5VSB



35 : USB2.0 Headers (USB2_0_1, USB2_2_3)



**36 : Top : DisplayPort (DP_1)
 Bottom : HDMI Port (HDMI1)**

**37 : Top : COM Port (COM2) (RS232/422/485)
 Bottom : COM Port (COM1) (RS232/422/485)**

* This motherboard supports RS232/422/485 on COM1, 2 ports. Please refer to below table for the pin definition. In addition, COM1, 2 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.

COM1, 2 Port Pin Definition

PIN	RS232	RS422	RS485
1	DCD	TX-	RTX-
2	RXD	RX+	N/A
3	TXD	TX+	RTX+
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	+5V / +12V	N/A	N/A