



P/N: 15G06M036000AK V1.0

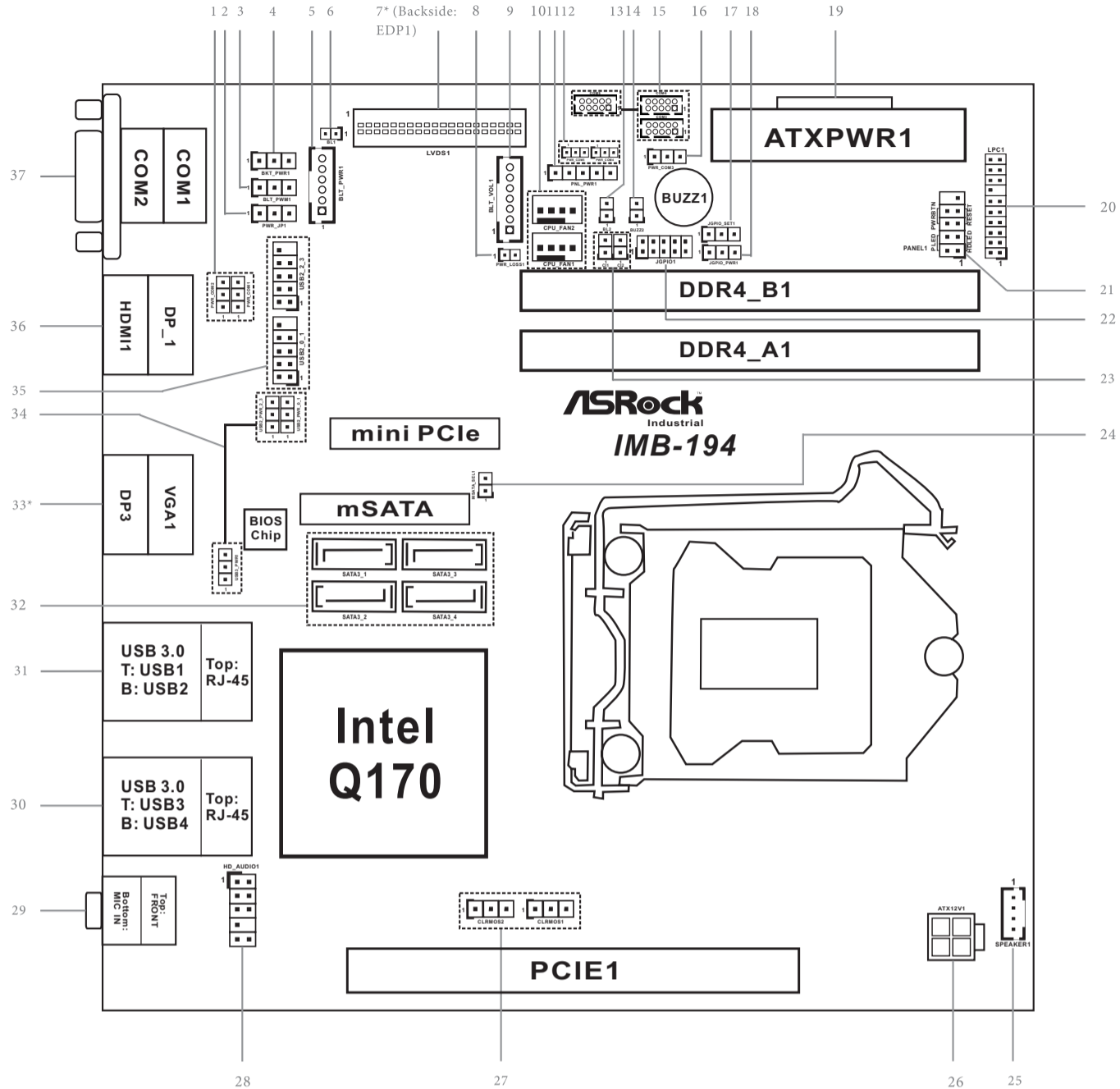
ASRock®

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)

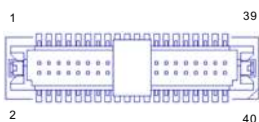
- 4 : Backlight Power Select (LCD_BLT_VCC) (BKT_PWR1)
1-2 : LCD_BLT_VCC : +5V
2-3 : LCD_BLT_VCC : +12V

- 5 : Inverter Power Control Wafer (BLT_PWR1)

- 6 : BL1

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

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



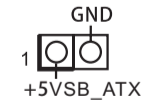
PIN	Signal Name	Signal Name
1	LCD_VCC	+3.3V
2	LCD_VCC	
3	LDDC_CLK	
4	LDDC_CLK	
5	LVDS_A_DATA0#	
6	LVDS_A_DATA0#	
7	LVDS_A_DATA1#	
8	LVDS_A_DATA1#	
9	LVDS_A_DATA2#	
10	LVDS_A_DATA2#	
11	GND	
12	LVDS_A_DATA3#	
13	LVDS_A_DATA3#	
14	GND	
15	LVDS_A_DATA3#	
16	LVDS_A_DATA3#	
17	GND	
18	LVDS_A_CLK#	
19	LVDS_A_CLK#	
20	GND	
21	LVDS_B_DATA0#	
22	LVDS_B_DATA0#	
23	GND	
24	LVDS_B_DATA1#	
25	LVDS_B_DATA1#	
26	GND	
27	LVDS_B_DATA2#	
28	LVDS_B_DATA2#	
29	DPLVDD_EN	
30	LVDS_B_DATA3#	
31	LVDS_B_DATA3#	
32	GND	
33	LVDS_B_CLK#	
34	LVDS_B_CLK#	
35	GND	
36	CON_LBKLT_EN	
37	LCD_BLT_VCC	
38	LCD_BLT_VCC	
39	LCD_BLT_VCC	

* eDP Connector (For IMB-194-D only) (on the Backside of PCB)



PIN	Signal Name
40	NA
39	LCD_BLT_VCC
38	LCD_BLT_VCC
37	LCD_BLT_VCC
36	LCD_BLT_VCC
35	LCD_BLT_VCC
34	NA
33	NA
32	CON_LBKLT_CTL
31	CON_LBKLT_EN
30	GND
29	GND
28	GND
27	CON_LBKLT_CTL
26	GND
25	GND
24	GND
23	GND
22	NA
21	LCD_VCC
20	LCD_VCC
19	LCD_VCC
18	LCD_VCC
17	GND
16	gDP_AUXX_CON
15	gDP_AUXX_CON
14	GND
13	gDP_TX0_CON
12	gDP_TX0_CON
11	GND
10	gDP_TX1_CON
9	gDP_TX1_CON
8	GND
7	gDP_TX2_CON
6	gDP_TX2_CON
5	GND
4	gDP_TX3_CON
3	gDP_TX3_CON
2	GND
1	NA

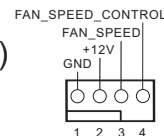
- 8 : Power Loss Jumper (PWR_LOSS1)
Open: Power Loss
Close: no Power Loss



- 9 : Backlight Volume Control (BLT_VOL1)

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

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



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



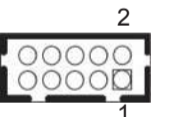
- 13 : BL2



- 14 : Buzzer

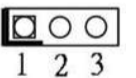


- 15 : COM3, 4, 5 Headers (RS232)

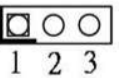


PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
10	NC	8	CCTS#	6	DDSR#	4	DDTR#	2	RRXD
9	+5V / +12V	7	RRTS#	5	GND	3	TTXD	1	DDCD#

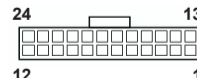
- 17 : Digital Input / Output Default Value Setting (JGPIO_SET1)
1-2 : Pull-High
2-3 : Pull-Low



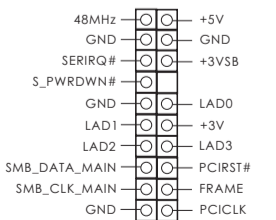
- 18 : Digital Input / Output Power Select (JGPIO_PWR) (JGPIO_PWR1)
1-2 : +12V
2-3 : +5V



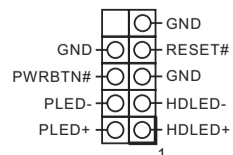
- 19 : 24-pin ATX Power Input Connector

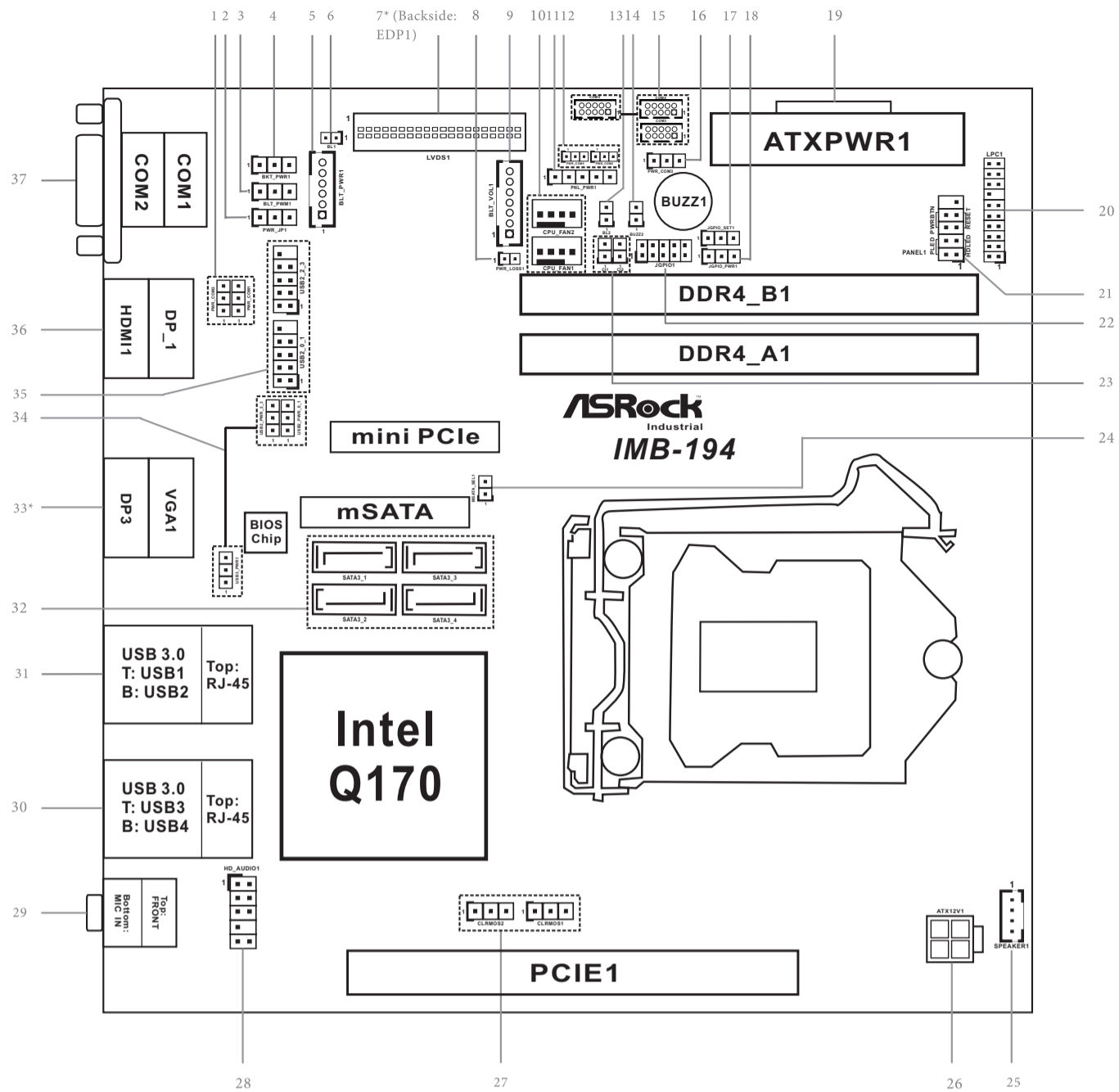


- 20 : LPC Header

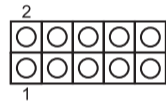


- 21 : System Panel Header





22 : Digital Input/Output Pin Header (JGPIO1)

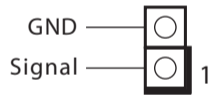


PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
2	SIO_GP20	4	SIO_GP21	6	SIO_GP22	8	SIO_GP23	10	GND
1	SIO_GP24	3	SIO_GP25	5	SIO_GP26	7	SIO_GP27	9	JGPIO_PWR

23 : Chassis Intrusion Headers

C11 :
 Close : Active Case Open
 Open : Normal

C12 :
 Close : Normal
 Open : Active Case Open



24 : MSATA Select (MSATA_SEL1)

Open : For SATA3_1
 Short : For mSATA

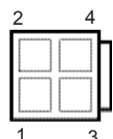


25 : 3W Audio AMP Output Wafer



PIN	Signal Name
1	OUTLN
2	OUTLP
3	OUTRP
4	OUTRN

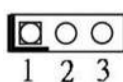
26 : 4-pin ATX Power Input/Output Connector



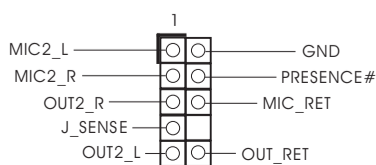
27 : Clear CMOS Headers

CLRMO1 :
 1-2 : Normal
 2-3 : Clear CMOS

CLRMO2 :
 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)

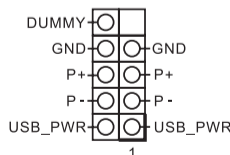


**33* : Top : D-Sub Port (VGA1) (For IMB-194-L only)
 Bottom : DisplayPort (DP3) (For IMB-194-D only)**

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