

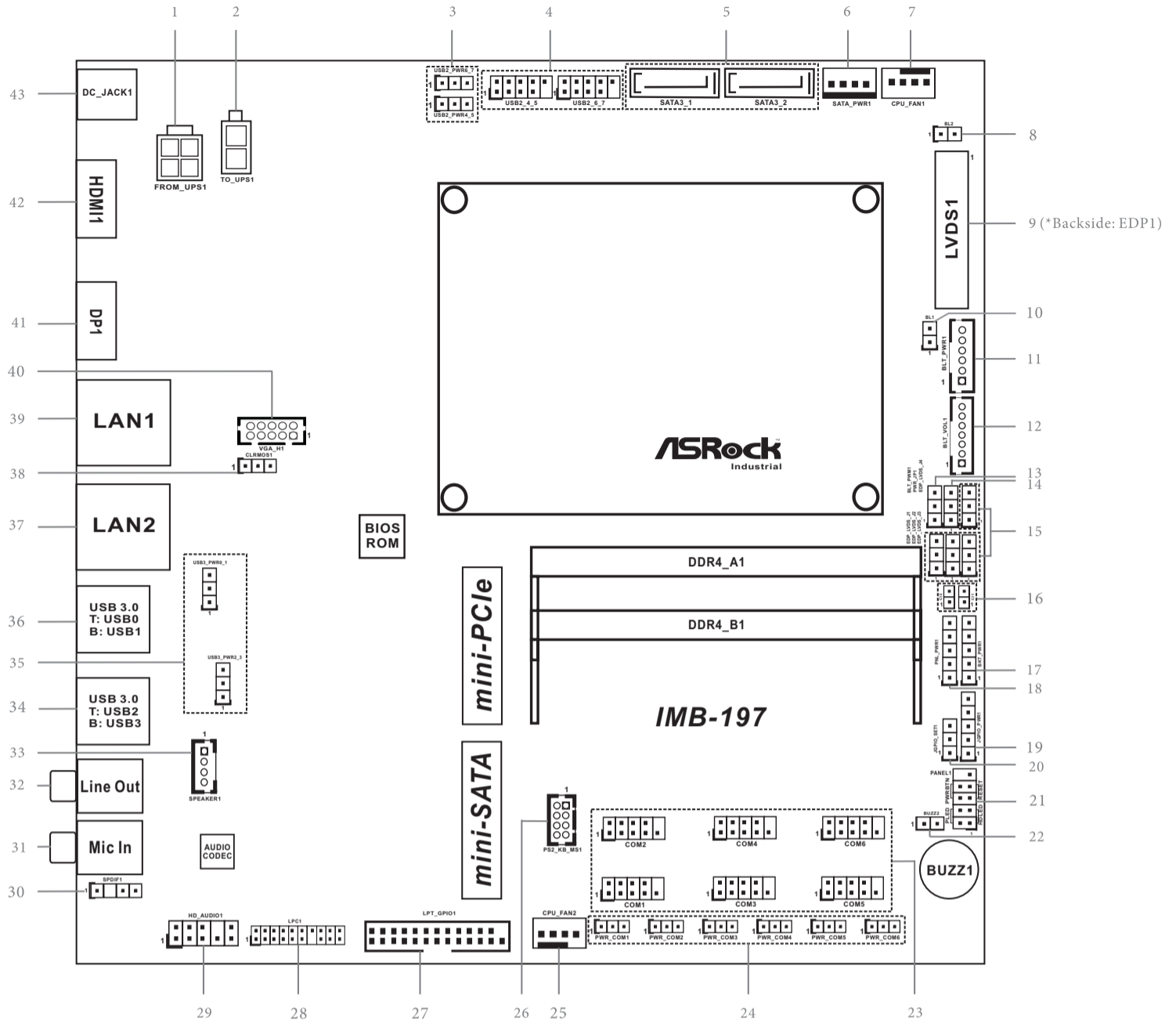


P/ N: 15G06M042000AK V1.0

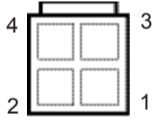
# ASRock® Jumpers and Headers Setting Guide

## IMB-197-D

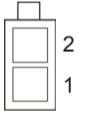
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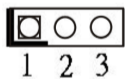
1 : ATX Power Connector (Input 12V or 19-24V)  
1-2 : GND  
3-4 : DC Input



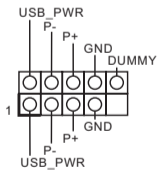
2 : 2-pin UPS Module Power Input Connector  
Pin1 : GND  
Pin2 : DC Input



3 : USB Power Setting Jumpers (USB2\_PWR4\_5 (For USB2\_4\_5)) (USB2\_PWR6\_7 (For USB2\_6\_7))  
1-2 : +5V  
2-3 : +5VSB



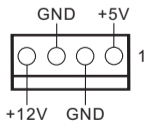
4 : USB2.0 Headers (USB2\_4\_5, USB2\_6\_7)



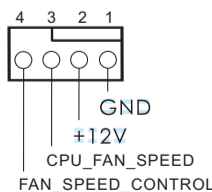
5 : SATA3 Connectors (SATA3\_1, SATA3\_2)



6 : SATA Power Output Connector



7 : 4-Pin CPU FAN Connector (+12V)



8 : BL2

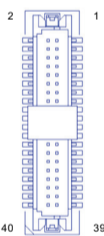


10 : BL1



9 : LVDS Panel Connector

PIN	Signal Name	PIN	Signal Name
2	LCD_VCC	1	LCD_VCC
4	LVDS_A_DATA0#	5	LVDS_A_DATA0#
6	LVDS_A_DATA1#	9	LVDS_A_DATA1#
8	LVDS_A_DATA2#	11	GND
10	LVDS_A_DATA3#	13	LVDS_A_DATA2#
12	LVDS_A_DATA4#	15	LVDS_A_DATA3#
14	LVDS_A_DATA5#	17	GND
16	LVDS_A_DATA6#	19	LVDS_A_CLK#
18	LVDS_A_DATA7#	21	LVDS_B_DATA0#
20	LVDS_A_DATA8#	23	GND
22	LVDS_A_DATA9#	25	LVDS_B_DATA1#
24	LVDS_A_DATA10#	27	LVDS_B_DATA2#
26	LVDS_A_DATA11#	29	DPLVDD_EN
28	LVDS_A_DATA12#	31	LVDS_B_DATA3#
30	LVDS_A_DATA13#	33	LVDS_B_CLK#
32	LVDS_A_DATA14#	35	GND
34	LVDS_A_DATA15#	37	CON_LBKLT_CTL
36	CON_LBKLT_EN	39	LCD_BLT_VCC
38	LCD_BLT_VCC		
40	LCD_BLT_VCC		

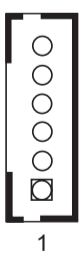


\* eDP Connector (on the Backside of PCB)



11 : Backlight Power Connector (BLT\_PWR1)

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



12 : 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



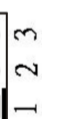
13 : Backlight Control Level (CON\_LBKLT\_CTL) (BLT\_PWM1)  
1-2 : +3V  
2-3 : +5V



14 : ATX/AT Mode Select (PWR\_JP1)  
1-2 : AT Mode  
2-3 : ATX Mode



15 : EDP\_LVDS\_J1~EDP\_LVDS\_J4  
1-2 : LVDS  
2-3 : eDP



16 : Chassis Intrusion Headers  
CI1  
Close : Active case open  
Open : Normal  
CI2  
Close : Normal  
Open : Active case open



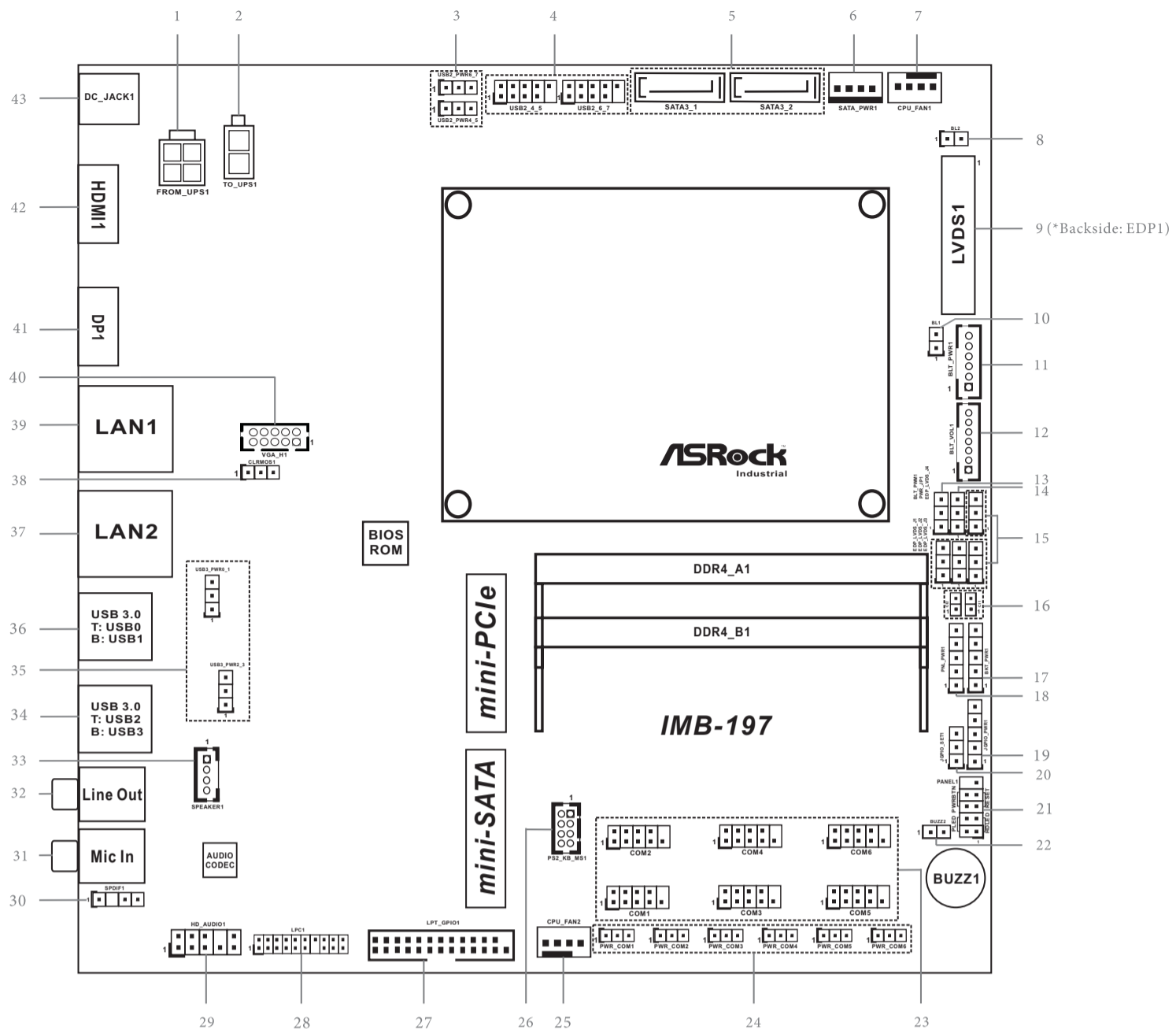
17 : Backlight Power Select (LCD\_BLT\_VCC) (BKT\_PWR1)  
1-2 : LCD\_BLT\_VCC : +5V  
2-3 : LCD\_BLT\_VCC : +12V  
4-5 : LCD\_BLT\_VCC : DC\_IN



18 : Panel Power Select (LCD\_VCC) (PNL\_PWR1)  
1-2 : LCD\_VCC : +3V  
2-3 : LCD\_VCC : +5V  
4-5 : LCD\_VCC : +12V



PIN	Signal Name
40	NA
39	LCD_BLT_VCC
38	LCD_BLT_VCC
37	LCD_BLT_VCC
36	LCD_BLT_VCC
35	NA
34	NA
33	CON_LBKLT_CTL
32	CON_LBKLT_EN
31	GND
30	GND
29	GND
28	GND
27	eDP_HPDC_CON
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	eDP_AUX#_CON
15	eDP_AUX_CON
14	GND
13	eDP_TX0_CON
12	eDP_TX0_CON
11	GND
10	eDP_TX1_CON
9	eDP_TX#1_CON
8	GND
7	eDP_TX2_CON
6	eDP_TX#2_CON
5	GND
4	eDP_TX3_CON
3	eDP_TX#3_CON
2	GND
1	NA



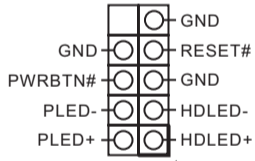
19 : Digital Input / Output Power Select (JGPIO\_PWR) (JGPIO\_PWR1)  
 1-2 : +12V  
 2-3 : +5V  
 3-4 : +5V  
 4-5: GND



20 : Digital Input / Output Default Value Setting (JGPIO\_SET1)  
 1-2 : Pull-High  
 2-3 : Pull-Low



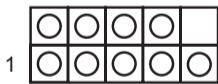
21 : System Panel Header



22 : Buzzer



23 : COM1, 2, 3, 4, 5, 6 Headers



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

\* This motherboard supports RS232/422/485 on COM1, 2 ports. Please refer to below table for the pin definition. In addition, COM1, 2 port (RS232/422/485) can be adjusted in BIOS setup utility > Advanced Screen > Super IO Configuration. You may refer to our user manual for details.

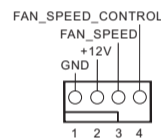
**COM1, 2 Ports Pin Definition**

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	PWR	PWR	PWR

24 : COM Port Pin9 PWR Setting Jumpers  
 PWR\_COM1 (For COM Port1)  
 PWR\_COM2 (For COM Port2)  
 PWR\_COM3 (For COM Port3)  
 PWR\_COM4 (For COM Port4)  
 PWR\_COM5 (For COM Port5)  
 PWR\_COM6 (For COM Port6)



25 : 4-Pin CPU FAN Connector (+12V)



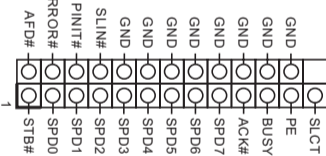
26 : PS2 Keyboard/Mouse Header



PIN	Signal Name	PIN	Signal Name
2	+5VSB	1	KBCLK
4	+5VSB	3	KBDATA
6	GND	5	MSDATA
8	GND	7	MSCLK

27 : Printer Port / GPIO Header (LPT\_GPIO1)

Printer Port:

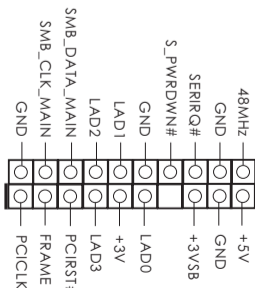


GPIO:

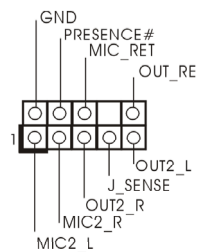
PIN	Signal Name	PIN	Signal Name
2	SIO_Gp46	1	SIO_Gp47
4	SIO_Gp45	3	SIO_Gp42
6	SIO_Gp44	5	SIO_Gp41
8	SIO_Gp43	7	SIO_Gp40
10	JGPIO_PWR	9	SIO_Gp37
12	JGPIO_PWR	11	SIO_Gp36
14	GND	13	SIO_Gp35
16	GND	15	SIO_Gp34
18	GND	17	SIO_Gp33
20	GND	19	SIO_Gp32
22	GND	21	SIO_Gp31
24	GND	23	SIO_Gp30
26	NC	25	NA

\* If you want to use the printer port function, please short pin4 and pin5 on Digital Input / Output Power Select (JGPIO\_PWR1).

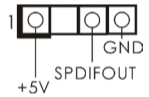
28 : LPC Header



29 : Front Panel Audio Header



30 : SPDIF Header  
 Audio Jacks  
 31 : Pink - Mic In  
 32 : Green - Line Out



33 : 3W Audio AMP Output Wafer

PIN	Signal Name
1	OUTLN
2	OUTLP
3	OUTRP
4	OUTRN



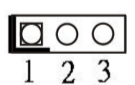
34 : USB3.0 Ports (USB3\_2\_3)

35 : USB Power Setting Jumpers (USB3\_PWR0\_1 (For USB3\_0\_1)) (USB3\_PWR2\_3 (For USB3\_2\_3))  
 1-2 : +5V  
 2-3 : +5VSB



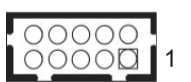
36 : USB3.0 Ports (USB3\_0\_1)  
 37 : RJ45 LAN Port (LAN2)

38 : Clear CMOS Header  
 1-2 : Normal  
 2-3 : Clear CMOS



39 : RJ45 LAN Port (LAN1)

40 : VGA Connector (Optional)



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

\* VGA Connector is shared with DisplayPort. If you enable one, the other one will not function.

41 : DisplayPort  
 42 : HDMI Port  
 43 : DC Jack