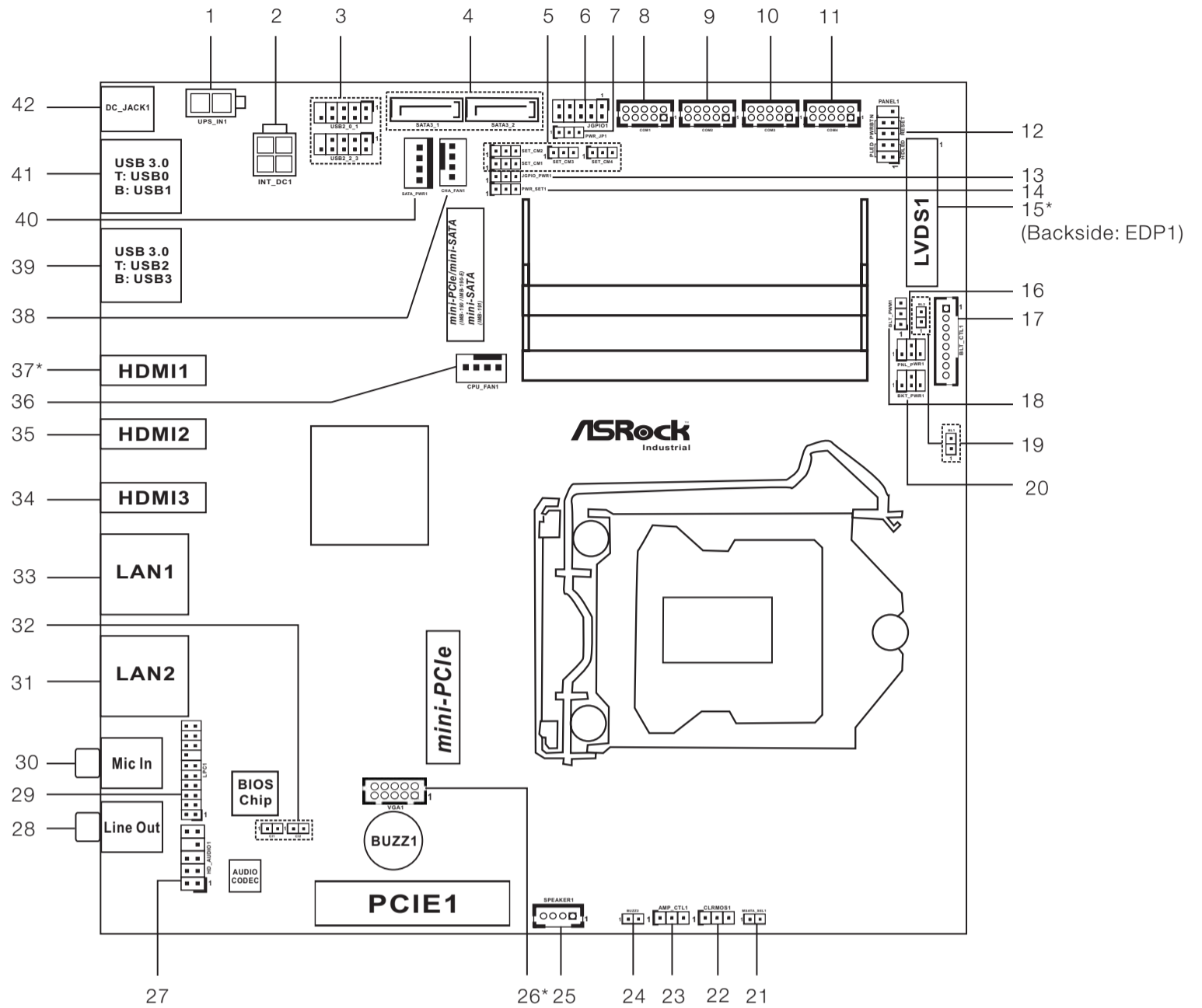




ASRock Jumpers and Headers Setting Guide

IMB-190 IMB-190-E IMB-191

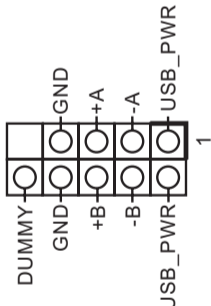
The terms HDMI™ and HDMI High-Definition Multimedia Interface, and the HDMI logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.



1 : 2-pin UPS Module Power Input Connector

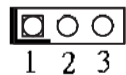
2 : 4-pin ATX Power Input/Output Connector

3 : USB2.0 Headers (USB2_0_1, USB2_2_3)

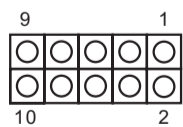


4 : SATA3 Connectors (SATA3_1, SATA3_2)

5 : COM1, 2, 3, 4 PWR Setting Jumpers
1-2: +5V
2-3: +12V



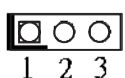
6 : Digital Input / Output Pin Header



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

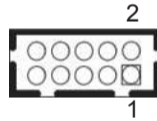
7 : ATX/AT Mode Jumper (PWR_JP1)

1-2: AT Mode
2-3: ATX Mode



COM1, 2, 3, 4 Headers

- 8 : COM1
- 9 : COM2
- 10 : COM3
- 11 : COM4



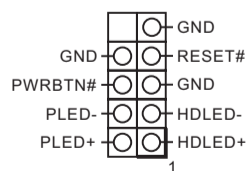
PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
10	NC	8	CCTS#	6	DDSR#	4	DDTR#	2	RRXD
9	+5V	7	RRTS#	5	GND	3	TTXD	1	DCCD#

* 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

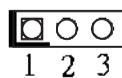
PIN	RS232	RS422	RS485
1	DCD	TX-	RTX-
2	RXD	RX+	N/A
3	TXD	TX+	RTX+
4	DTR	RX-	N/A
5	GND	GND	GND
6	DSR	N/A	N/A
7	RTS	N/A	N/A
8	CTS	N/A	N/A
9	+5V	+5V	+5V
10	NC	NC	NC

12 : System Panel Header



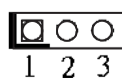
13 : Digital Input / Output Power Select (JGPIO_PWR1)

1-2: +12V
2-3: +5V



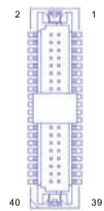
14 : Digital Input / Output Default Value Setting (JGPIO_SET1)

1-2: Pull-High (+3V)
2-3: Pull-Low

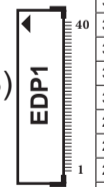


15* : LVDS Panel Connector (Only for IMB-190 / IMB-191)

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



* eDP Connector (on the Backside of PCB) (Only for IMB-190-E)



16 : Panel Power Select (PNL_PWR1)



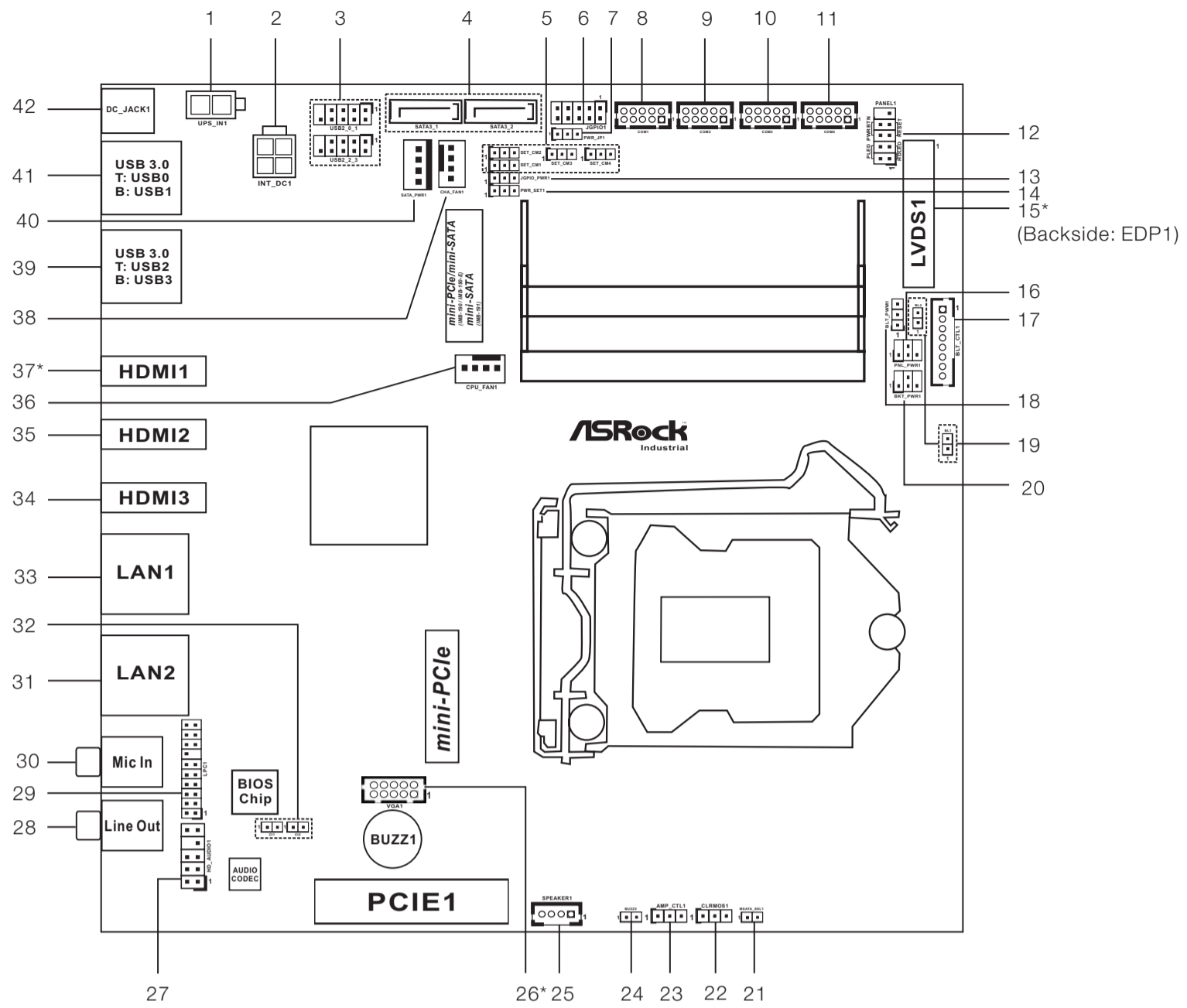
PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
2	NC	4	+12V	6	NC
1	+3.3V	3	LCD_VCC	5	+5V

17 : BLT_CTL1

PIN	Signal Name
1	CON_LBKLT_EN
2	CON_LBKLT_CTL
3	LCD_BLT_VCC
4	LCD_BLT_VCC
5	GND
6	GND
7	GPIO_BLT_UP
8	GPIO_BLT_DW



PIN	Signal Name
40	NA
39	LCD_BLT_VCC
38	LCD_BLT_VCC
37	LCD_BLT_VCC
36	LCD_BLT_VCC
35	SMB_CLK
34	SMB_DATA
33	CON_LBKLT_CTL
32	CON_LBKLT_EN
31	GND
30	GND
29	GND
28	GND
27	eDP_HPDCON
26	GND
25	GND
24	GND
23	NA
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_TX#0_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



18 : Backlight Control Level (BLT_PWM1)
(CON_LBKL_CTL)
1-2: +3.3V
2-3: +5V



19 : BL1
Open: Protect LCD_BLT_VCC
Short: No Protect LCD_BLT_VCC
BL2
Open: Protect LCD_VCC
Short: No Protect LCD_VCC



20 : Backlight Power Select
(BKT_PWR1)

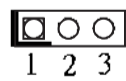


PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
2	NC	4	+VIN	6	NC
1	+5V	3	LCD_BLT_VCC	5	+12V

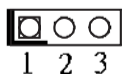
21 : mSATA Select
Open: Auto Detect or Auto Select
Short: Forced Mini-SATA



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



23 : Speaker Control



PIN	Signal Name
1	GPIO_VOL_DW
2	GND
3	GPIO_VOL_UP

24 : Buzzer

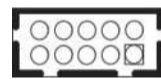


25 : 3W Audio AMP Output Wafer



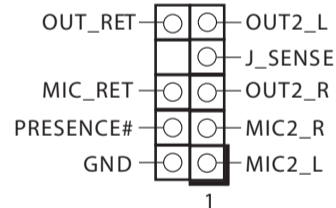
PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
4	SPK R-	3	SPK R+	2	SPK L+	1	SPK L-

26* : VGA Header
(Only for IMB-190 / IMB-191)



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

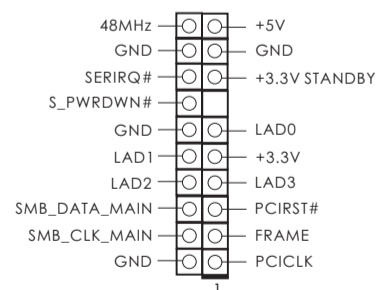
27 : Front Panel Audio Header



Audio Jacks

28 : Green - Line Out
30 : Pink - Mic In

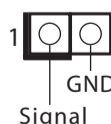
29 : LPC Header



RJ45 LAN Ports

31 : LAN2
33 : LAN1

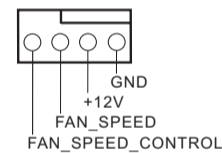
32 : Chassis Intrusion Headers
(CI1, CI2)
Short: Active Case Open
Open: Normal



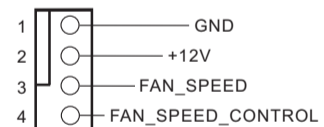
HDMI Ports

34 : HDMI3
35 : HDMI2
37* : HDMI1 (Only for IMB-190 / IMB-190-E)

36 : 4-Pin CPU FAN Connector (+12V)



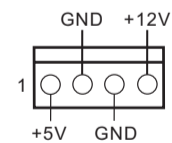
38 : 4-Pin Chassis FAN Connector (+12V)



USB3.0 Ports

39 : USB3_2_3
41 : USB3_0_1

40 : SATA Power Output Connector



42 : DC Jack