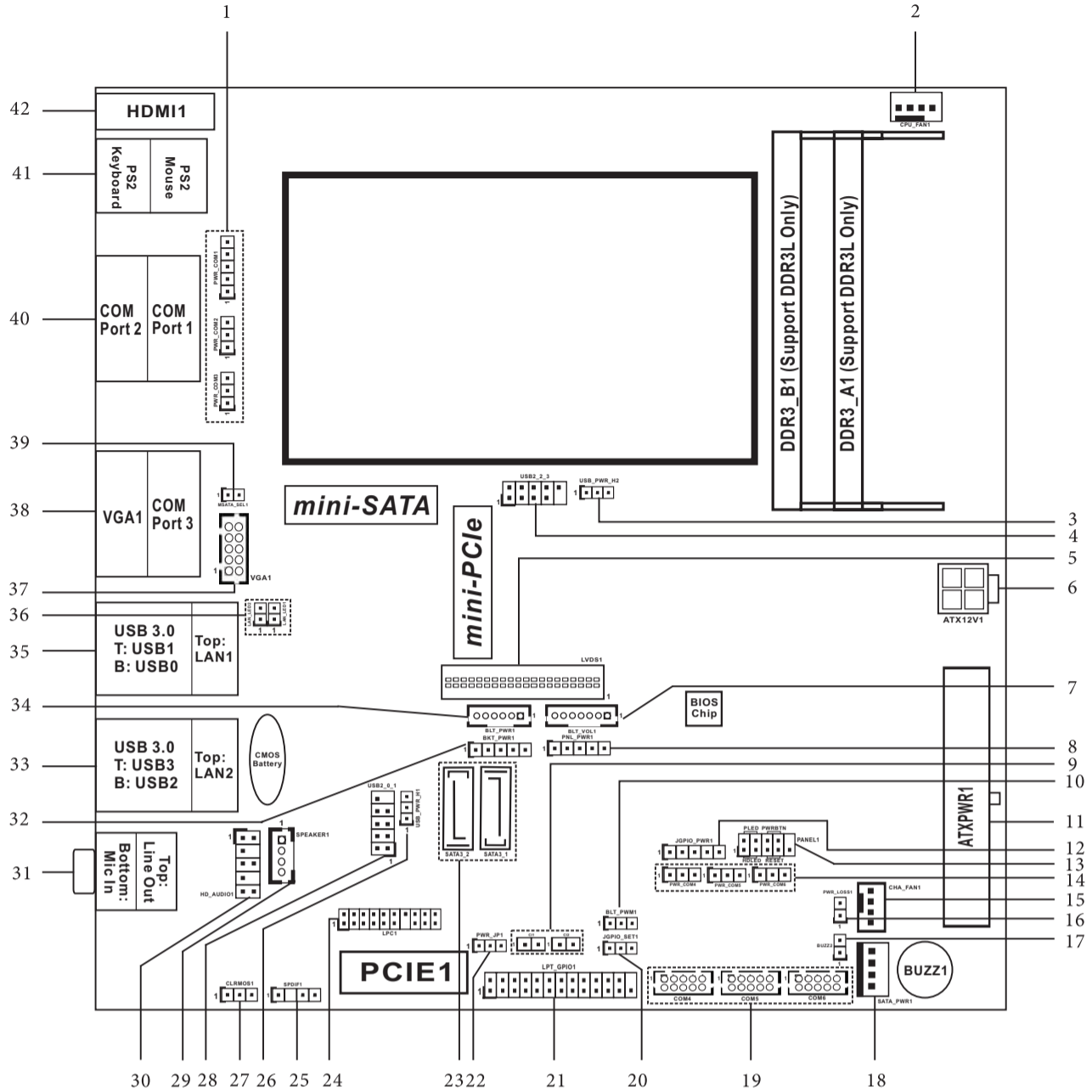




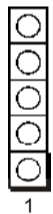
# ASRock® Jumpers and Headers Setting Guide

## IMB-154

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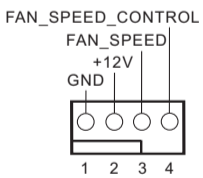
**1 : COM Port PWR Setting Jumpers**  
**PWR\_COM1 (For COM Port1)**  
 1-2: +5V  
 2-3: +12V  
 3-4: +12V  
 4-5: +5VSB



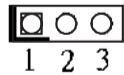
**PWR\_COM2 (For COM Port2)**  
**PWR\_COM3 (For COM Port3)**  
 1-2: +5V  
 2-3: +12V



**2 : 4-Pin CPU FAN Connector (+12V)**

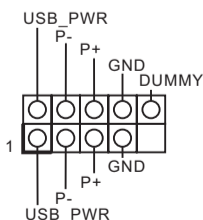


**3 : USB2 Power Setting Jumper**  
 (for USB2\_2\_3)  
 1-2: +5V  
 2-3: +5VSB

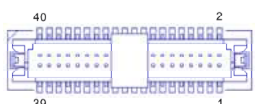


**4 : USB2.0 Connector (USB2\_2\_3)\***

\* USB2\_2\_3 is shared with MINI\_SATA1 and MINI\_PCIE1. If you use USB2\_2\_3 connector, the USB device on MINI\_SATA1 and MINI\_PCIE1 will be disabled.

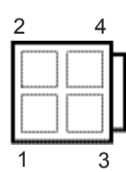


**5 : LVDS Panel Connector**



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_LBKL_T_EN	35	GND
38	LCD_BLT_VCC	37	CON_LBKL_CTL
40	LCD_BLT_VCC	39	LCD_BLT_VCC

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



**7 : Backlight Volume Control (BLT\_VOL1)**

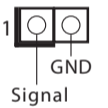
PIN	Signal Name
1	GPIO_VOL_UP
2	GPIO_VOL_DW
3	PWRDN
4	LVDS1 BLUP
5	LVDS1 BLDW
6	GND
7	GND



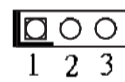
**8 : Panel Power Selection (LCD\_VCC)**  
 (PNL\_PWR1)  
 1-2: LVDD: +3V  
 2-3: LVDD: +5V  
 4-5: LVDD: +12V



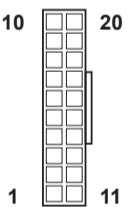
**9 : Chassis Intrusion Headers**  
 CI1:  
 Close: Active Case Open  
 Open: Normal  
 CI2:  
 Close: Normal  
 Open: Active Case Open



**10 : BLT\_PWM1**  
 1-2: +3V Level  
 2-3: +5V Level



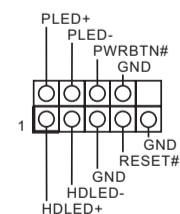
**11 : 20-pin ATX Power Input Connector**



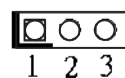
**12 : Digital Input / Output Power Select**  
 1-2: +12V  
 2-3: +5V  
 3-4: +5V  
 4-5: GND



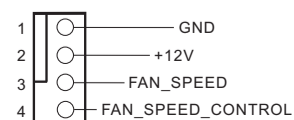
**13 : System Panel Header**

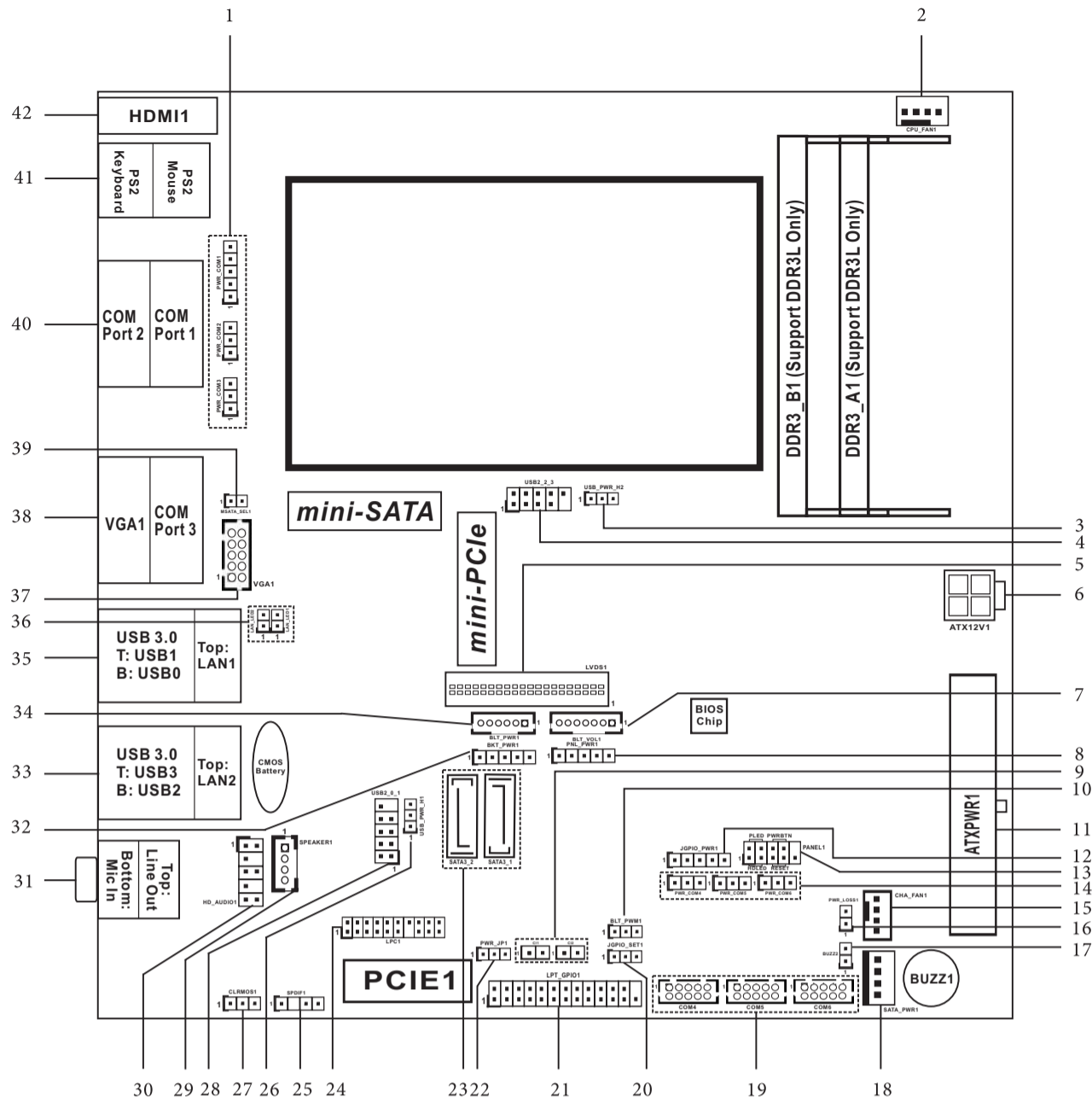


**14 : COM Port PWR Setting Jumpers**  
 PWR\_COM4 (For COM Port4)  
 PWR\_COM5 (For COM Port5)  
 PWR\_COM6 (For COM Port6)  
 1-2: +5V  
 2-3: +12V



**15 : 4-Pin Chassis FAN Connector (+12V)**





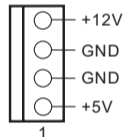
16 : Power Loss Jumper  
Open: Power Loss  
Close: no Power Loss



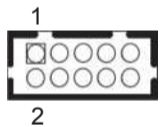
17 : 2-Pin Buzzer Header



18 : SATA Power Output Connector

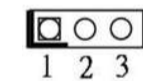


19 : COM4, 5, 6 Headers (RS232)

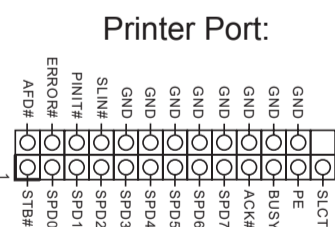


PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
1	DDCD#	3	TTXD	5	GND	7	RRTS#	9	+5V or +12V
2	RRXD	4	DDTR#	6	DDSR#	8	CCTS#	10	NC

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



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

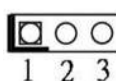


GPIO:

PIN	Signal Name	PIN	Signal Name
26	NC	25	NA
24	GND	23	SIO_GP30
22	GND	21	SIO_GP31
20	GND	19	SIO_GP32
18	GND	17	SIO_GP33
16	GND	15	SIO_GP34
14	GND	13	SIO_GP35
12	JGPIOPWR	11	SIO_GP36
10	JGPIOPWR	9	SIO_GP37
8	SIO_GP43	7	SIO_GP40
6	SIO_GP44	5	SIO_GP41
4	SIO_GP45	3	SIO_GP42
2	SIO_GP46	1	SIO_GP47

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

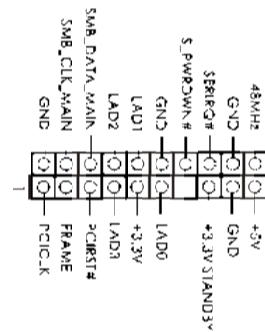
22 : ATX/AT Mode Select  
1-2: AT Mode  
2-3: ATX Mode



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



24 : LPC Header



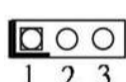
25 : SPDIF Header



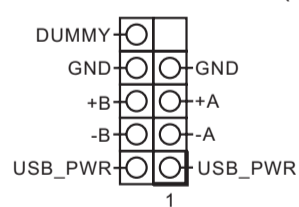
26 : USB2 Power Setting Jumper (for USB2\_0\_1)  
1-2: +5V  
2-3: +5VSB



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



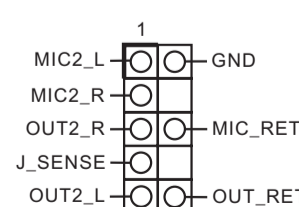
28 : USB2.0 Connector (USB2\_0\_1)



29 : 3W Audio AMP Output Wafer

PIN	Signal Name
1	OUTLN
2	OUTLP
3	OUTRP
4	OUTRN

30 : Front Panel Audio Header



31 : Audio Output  
Green – Line Out  
Pink – Mic In

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



33 : Top: RJ45 LAN Port (LAN2)  
Bottom: USB3.0 Ports (USB3\_2\_3)

34 : Backlight Power Connector (BLT\_PWR1)

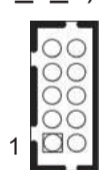
PIN	Signal Name
1	GND
2	GND
3	BL CTL
4	BL EN
5	LCD_BLT_VCC
6	LCD_BLT_VCC



35 : Top: RJ45 LAN Port (LAN1)  
Bottom: USB3.0 Ports (USB3\_0\_1)



37 : VGA Header



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

38 : Top: COM Port 3 (RS232/422/485)\*  
Bottom: VGA/D-Sub Port  
40 : Top: COM Port 1 (RS232/422/485)\*  
Bottom: COM Port 2 (RS232/422/485)\*

\* This motherboard supports RS232/422/485 on COM1~3 ports. Please refer to below table for the pin definition. In addition, COM1~3 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.

COM1~3 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	COM1: +5V/+12V/+5VSB COM2, 3: +5V/+12V	COM1: +5V/+12V/+5VSB COM2, 3: +5V/+12V	COM1: +5V/+12V/+5VSB COM2, 3: +5V/+12V

39 : mSATA Select  
Open: For SATA3\_2  
Close: For mSATA



41 : Top (Green) – PS/2 Mouse Port  
Bottom (Purple) – PS/2 Keyboard Port  
42 : HDMI Port