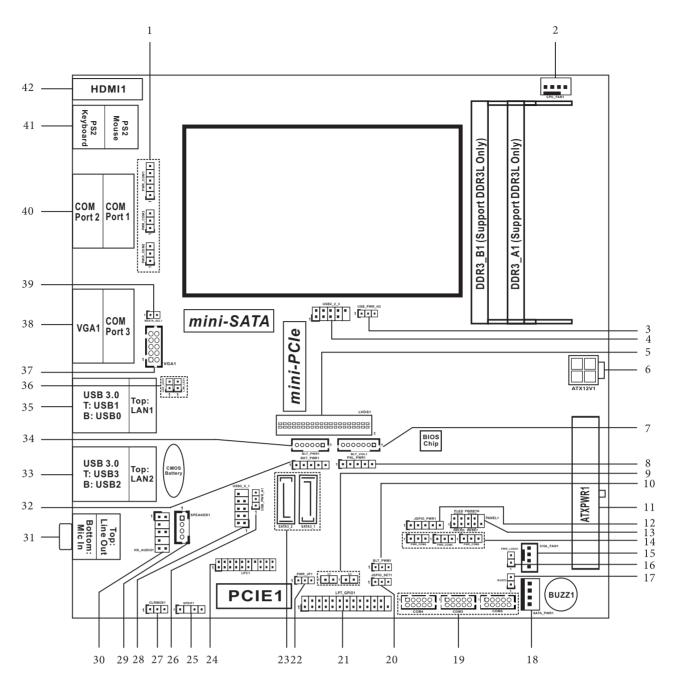


## **ISRock** Jumpers and Headers Setting Guide

**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

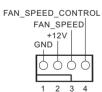
PWR\_COM2 (For COM Port2) PWR COM3 (For COM Port3)

1-2: +5V

2-3: +12V

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	20	LCD BLT VCC

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



3 : USB2 Power Setting Jumper

(for USB2\_2\_3)

1-2: +5V

2-3: +5VSB



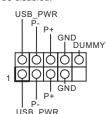
0

0 6

0 2

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



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

6 : ATX Power Connector (Input 12V-24V)

1-2: GND

3-4: DC Input



000000

7: Backlight Volume Control (BLT\_VOL1)

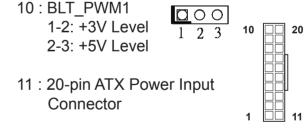
PIN	Signal Name							
1	GPIO_VOL_UP							
2	GPIO_VOL_DW							
3	PWRDN							
4	LVDS1 BLUP							
5	LVDS1 BLDW							
6	GND							
7 GND								

8 : Panel Power Selection (LCD\_VCC) (PNL PWR1)

1-2: LVDD: +3V

2-3: LVDD: +5V 4-5: LVDD: +12V 100000

9 : Chassis Intrusion Headers CI1:	1 O O
Close: Active Case Open Open: Normal	Signal
Cl2: Close: Normal	
Open: Active Case Open	



12 : Digital Input / Output Power Select

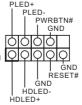
100000

1-2: +12V

2-3: +5V

3-4: +5V 4-5: GND

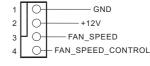
13 : System Panel Header

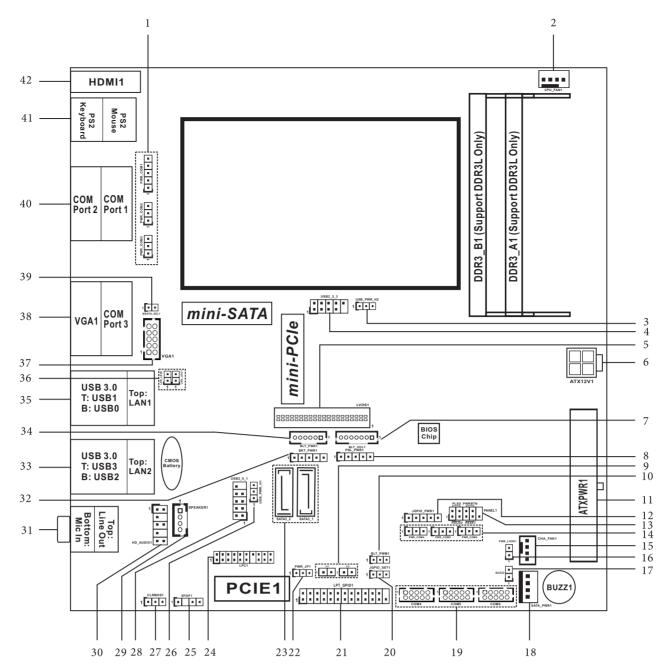


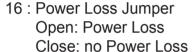
14 : COM Port PWR Setting Jumpers PWR\_COM4 (For COM Port4) PWR\_COM5 (For COM Port5) PWR\_COM6 (For COM Port6) 1-2: +5V

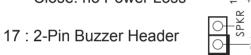
2-3: +12V 1 2 3

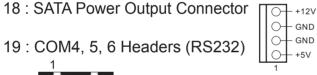
15: 4-Pin Chassis FAN Connector (+12V)













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

20 : Digital Input / Output Default Value Setting (JGPIO SET1) 

1-2: Pull-High 2-3: Pull-Low

21: Printer Port / GPIO Header (LPT GPIO1)

	Printer Port:											
AFD# -OO STB#	ERROR# O O SPD0	PINIT# O O SPD1	SLIN# O O SPD2	GND O SPD3	GND O SPD4	GND O SPD5	GND O SPD6	GND O SPD7	GND O ACK#	GND O BUSY	GND O PE	O SLCT

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

1 2 3

GPIO:

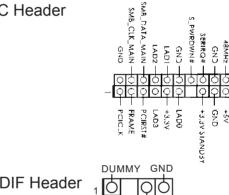
- \* If you want to use the printer port function, please short pin4 and pin5 on Digital Input / Output Power Select (JGPIO\_PWR1).
- 22: ATX/AT Mode Select 1-2: AT Mode 2-3: ATX Mode



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



24: LPC Header



25 : SPDIF Header



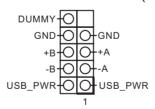
27 : Clear CMOS Header

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

0 0

0 2

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

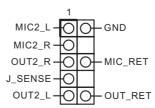


29: 3W Audio AMP Output Wafer

PIN	Signal Name
1	OUTLN
2	OUTLP
3	OUTRP
4	OUTRN

 $\bigcirc$ 0

30: Front Panel Audio Header



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

- 32 : Backlight Power Select 1 00000 (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

00000

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



•									
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

## 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

Close: For mSATA

100 Open: For SATA3 2

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

42: HDMI Port