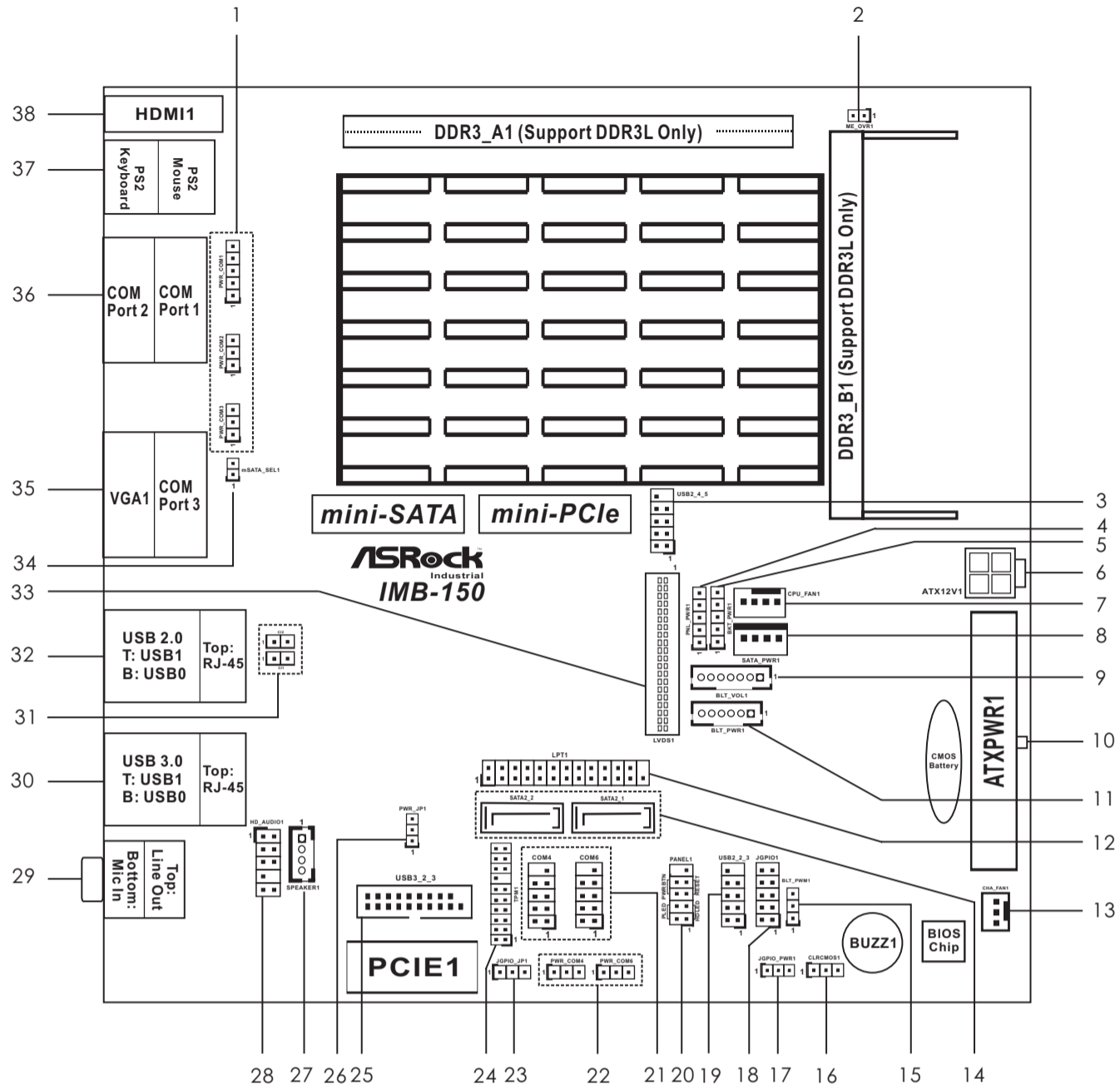




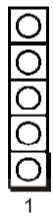
# ASRock Jumpers and headers setting guide

## IMB-150

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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



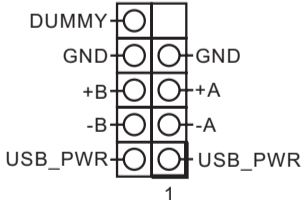
PWR\_COM2 (For COM Port2)  
 PWR\_COM3 (For COM Port3)  
 1-2: +5V  
 2-3: +12V



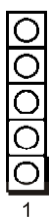
2 : ME Override (Security Flash Descriptors)  
 Short: Override  
 Open: Normal Operation



3 : USB2.0 Connector (USB2\_4\_5)



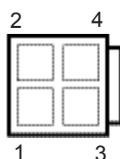
4 : Panel Power Selection (LCD\_VCC)  
 (PNL\_PWR1)  
 1-2: LVDD: +3V  
 2-3: LVDD: +5V  
 4-5: LVDD: +12V



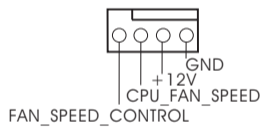
5 : Backlight Power Selection  
 (LCD\_BLT\_VCC) (BKT\_PWR1)  
 1-2: LCD\_BLT\_VCC: +5V  
 2-3: LCD\_BLT\_VCC: +12V  
 4-5: LCD\_BLT\_VCC: DC\_IN



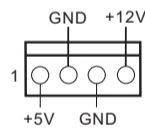
6 : ATX Power Connector  
 (Input 9V-19V)  
 1-2: GND  
 3-4: DC Input



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



8 : SATA Power Output Connector

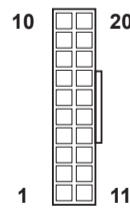


9 : Backlight Volume Control (BLT\_VOL1)

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



10 : 20-pin ATX Power Input Connector

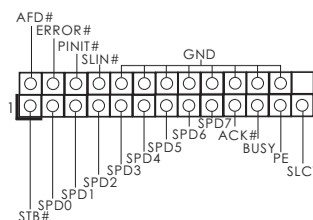


11 : Backlight Power Connector (BLT\_PWR1)

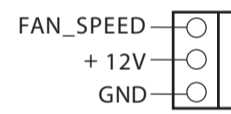
PIN	Signal Name
1	GND
2	GND
3	BL CTL
4	BL EN
5	LCD_BLT_VCC
6	LCD_BLT_VCC



12 : Printer Port Header



13 : 3-Pin Chassis FAN Connector (+12V)



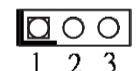
14 : SATA2 Connectors (SATA2\_1, SATA2\_2)



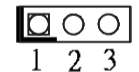
15 : BLT\_PWM1  
 1-2: +3V Level  
 2-3: +5V Level



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

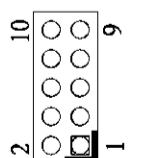


17 : Digital Input / Output Power Select  
 1-2: +12V  
 2-3: +5V

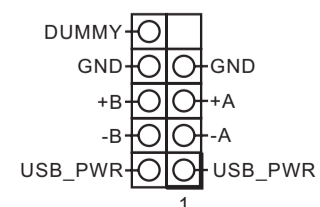


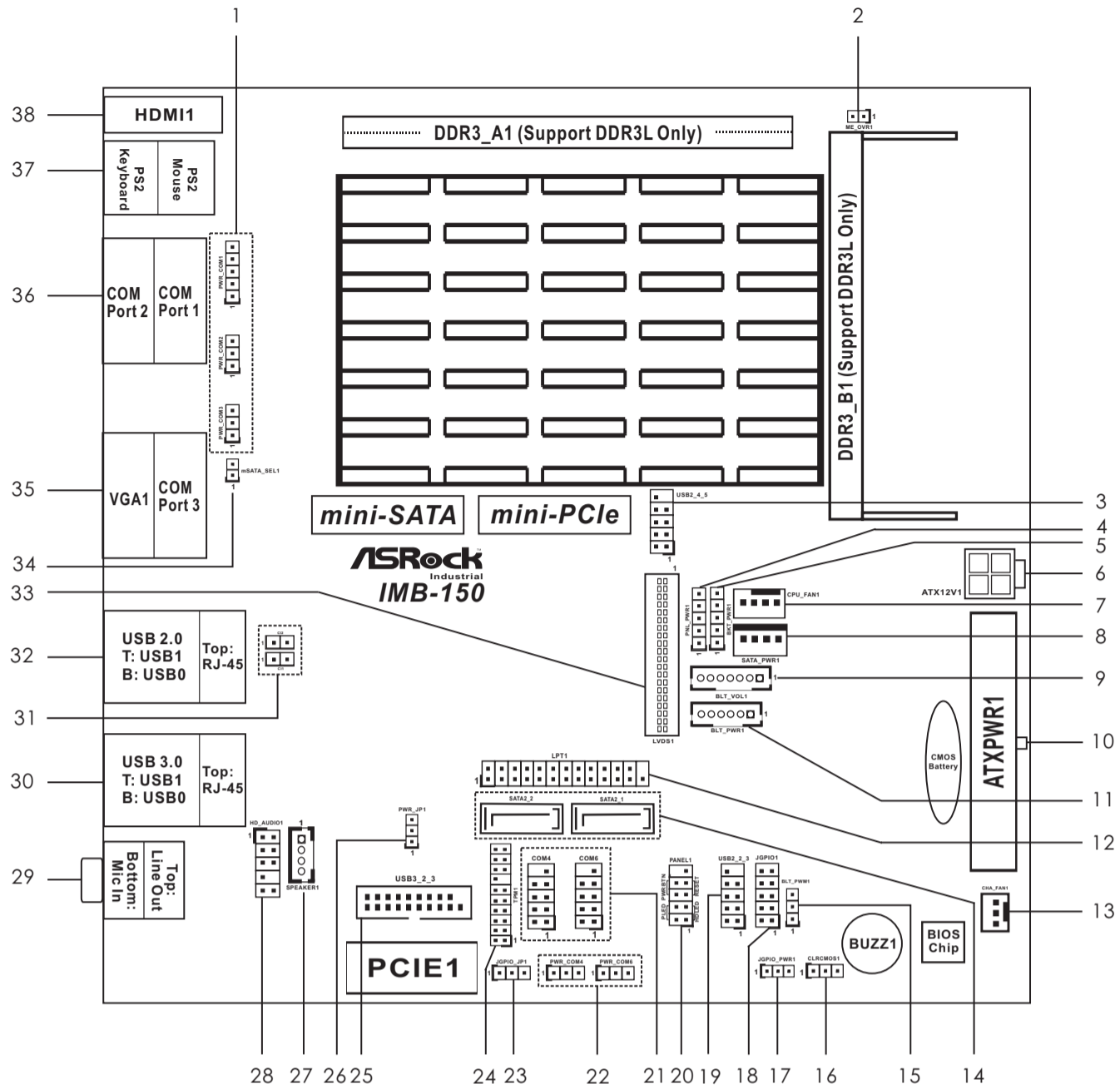
18 : Digital Input / Output Pin Header

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

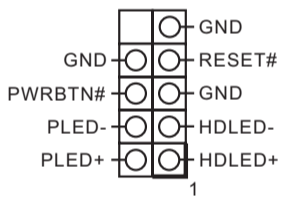


19 : USB2.0 Connector (USB2\_2\_3)

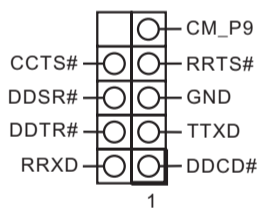




20 : System Panel Header



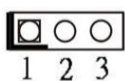
21 : COM4, 6 Headers (RS232)



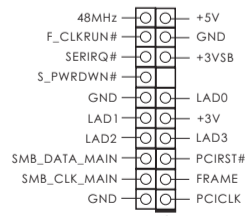
22 : COM Port PWR Setting Jumpers  
PWR\_COM4 (For COM Port4)  
PWR\_COM6 (For COM Port6)



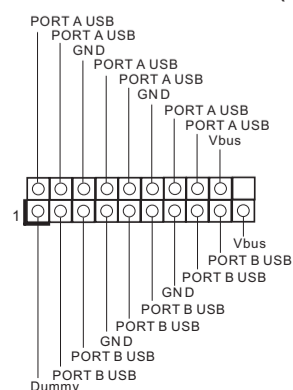
23 : JGPIO\_JP1 Jumper  
1-2: High  
2-3: Low



24 : TPM Header



25 : USB3.0 Connector (USB3\_2\_3)



26 : ATX/AT Mode Selection

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

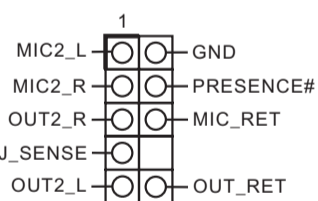


27 : 3W Audio AMP Output Wafer

PIN	Signal Name
1	OUTLN
2	OUTLP
3	OUTRP
4	OUTRN



28 : Front Panel Audio Header



29 : Audio Output

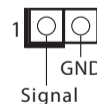
Green – Line Out  
Pink – Mic In

30 : Top: RJ45 LAN Port

Bottom: USB3.0 (USB3\_0\_1)

31 : Chassis Intrusion Headers

CI1:  
Close: Active case open  
Open: Normal  
CI2:  
Close: Normal  
Open: Active case open

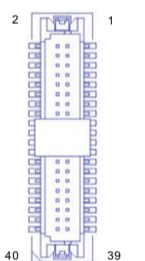


32 : Top: RJ45 LAN Port

Bottom: USB2.0 (USB\_0\_1)

33 : 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_LBKLKT_EN	35	GND
38	LCD_BLT_VCC	37	CON_LBKLKT_CTL
40	LCD_BLT_VCC	39	LCD_BLT_VCC



34 : mSATA Select

Open: For SATA2\_2  
Close: For m-SATA



35 : Top: COM Port 3 (RS232/422/485)\*

Bottom: VGA/D-Sub Port

36 : 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

37 : Top (Green) – PS/2 Mouse

Bottom (Purple) – PS/2 Keyboard

38 : HDMI Port