

## IMB-151D-WF

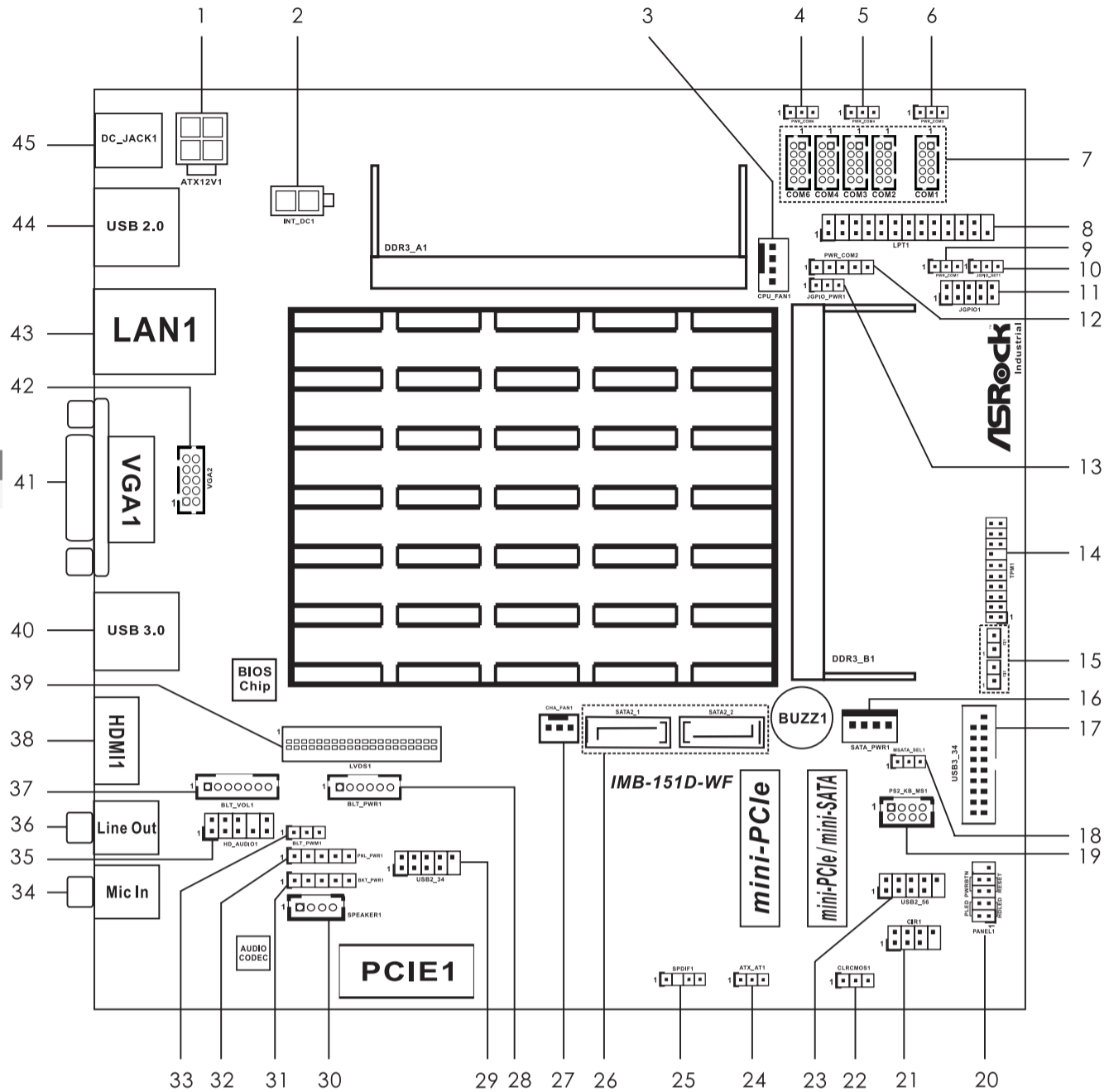
# Jumpers and Headers Setting Guide

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### Revision History

Date	Description
September 7, 2020	First Release



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

**2 : 2-pin UPS Module Power Input Connector**

**3 : 4-Pin CPU FAN Connector (+12V)**

**4 : PWR\_COM6 Jumper**  
1-2: +5V  
2-3: +12V

**5 : PWR\_COM4 Jumper**  
1-2: +5V  
2-3: +12V

**6 : PWR\_COM3 Jumper**  
1-2: +5V  
2-3: +12V

**7 : Internal COM Port Headers**  
COM1 (RS232/422/485)  
COM2, 3, 4, 6 (RS232)

PIN	Signal Name	PIN	Signal Name
2	RRXD	1	DDCD#
4	DDTR#	3	TTXD
6	DDSR#	5	GND
8	CCTS#	7	RRTS#
10	NC	9	COM1/3/4/6: +5V/+12V COM2: +5V/+12V/+5VSB

**COM1 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/+12V	+5V/+12V	+5V/+12V
10	NC	NC	NC

**8 : Printer Port Header**

**9 : PWR\_COM1 Jumper**  
1-2: +5V  
2-3: +12V

**10 : JGPIO\_SET1 Jumper**  
1-2: High  
2-3: Low

**11 : Digital Input / Output Pin Header**

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

**12 : PWR\_COM2 Jumper**  
1-2: +5V  
2-3: +12V  
3-4: +12V  
4-5: +5VSB

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

**14 : TPM Header**

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

**16 : SATA Power Output Connector**

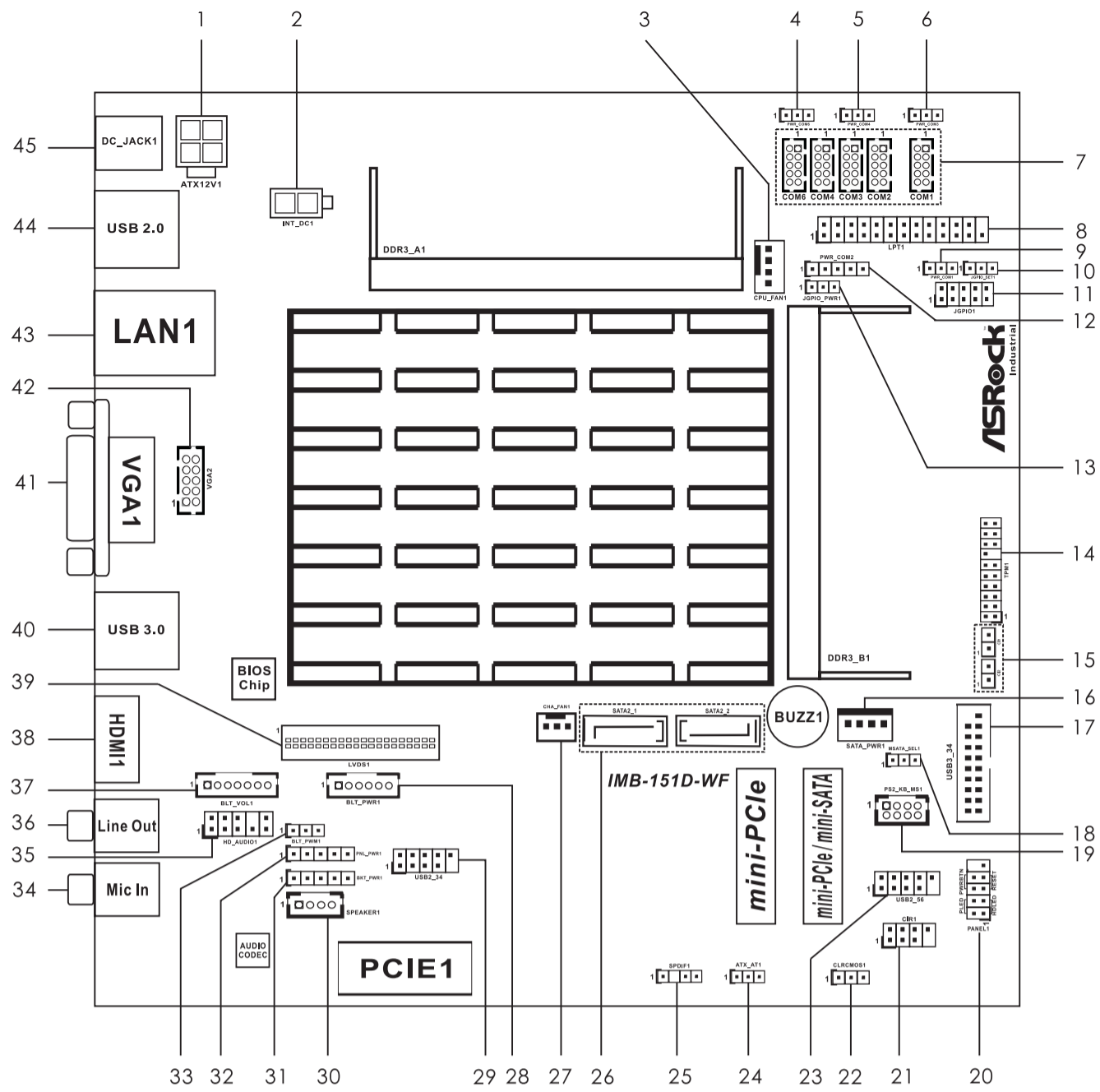
**17 : USB3.0 Connector**

**18 : mSATA Select**  
1-2: SATA2\_2 + mini-PCle  
2-3: mSATA, SATA2\_2 no function

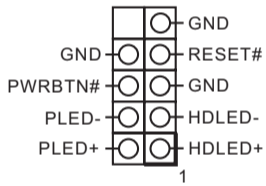
**19 : PS2\_KB\_MS1**

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

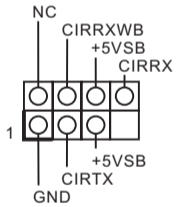
\* This motherboard supports RS232/422/485 on COM1 port. Please refer to below table for the pin definition. In addition, COM1 port (RS232/422/485) can be adjusted in BIOS setup utility > Advanced Screen > Super IO Configuration. You may refer to page 30 of our user manual for details.



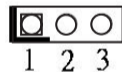
20 : System Panel Header



21 : CIR Header

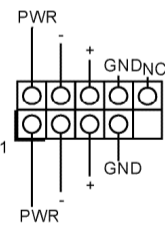


22 : Clear CMOS Header  
1-2: Normal  
2-3: Clear CMOS

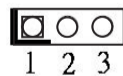


USB2.0 Connectors

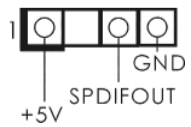
23 : USB2\_56  
29 : USB2\_34



24 : ATX/AT Mode Jumper  
1-2: AT Mode  
2-3: ATX Mode

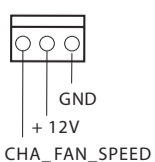


25 : SPDIF Header



26 : SATA2 Connectors

27 : 3-Pin Chassis FAN Connector (+12V)



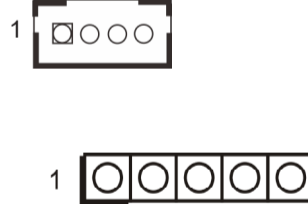
28 : Backlight Power Connector

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



30 : 3W Audio AMP Output Wafer

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

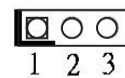


31 : Backlight Power Selection (LCD\_BLT\_VCC) (BKT\_PWR1)  
1-2: LCD\_BLT\_VCC: +5V  
2-3: LCD\_BLT\_VCC: +12V  
4-5: LCD\_BLT\_VCC: DC\_IN

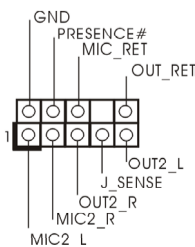
32 : Panel Power Selection (LCD\_VCC) (PNL\_PWR1)  
1-2: LVDD: +3V  
2-3: LVDD: +5V  
4-5: LVDD: +12V



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



34 : Audio Jack (Pink - Mic In)  
35 : Front Panel Audio Header



36 : Audio Jack (Green - Line Out)

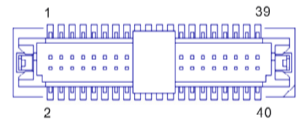
37 : Backlight Volume Control (BLT\_VOL1)

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



38 : HDMI Port

39 : LVDS Panel Connector

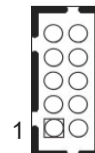


PIN	Signal Name	PIN	Signal Name
1	LVDD	2	LVDD
3	+3V	4	N/A
5	N/A	6	LVDS_A_DATA0#
7	LVDS_A_DATA0	8	GND1
9	LVDS_A_DATA1#	10	LVDS_A_DATA1
11	GND6	12	LVDS_A_DATA2#
13	LVDS_A_DATA2	14	GND2
15	LVDS_A_DATA3#	16	LVDS_A_DATA3
17	GND7	18	LVDS_A_CLK#
19	LVDS_A_CLK	20	GND3
21	LVDS_B_DATA0#	22	LVDS_B_DATA0
23	GND8	24	LVDS_B_DATA1#
25	LVDS_B_DATA1	26	GND4
27	LVDS_B_DATA2#	28	LVDS_B_DATA2
29	DPLVDD_EN	30	LVDS_B_DATA3#
31	LVDS_B_DATA3	32	GND5
33	LVDS_B_CLK#	34	LVDS_B_CLK
35	GND9	36	CON_LBKLT_EN_R
37	CON_LBKLT_CTR_R	38	LCD_BLT_VCC
39	LCD_BLT_VCC	40	LCD_BLT_VCC

40 : USB3.0 Ports

41 : VGA Port

42 : VGA2



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

43 : RJ45 LAN Port

44 : USB2.0 Ports

45 : DC Jack