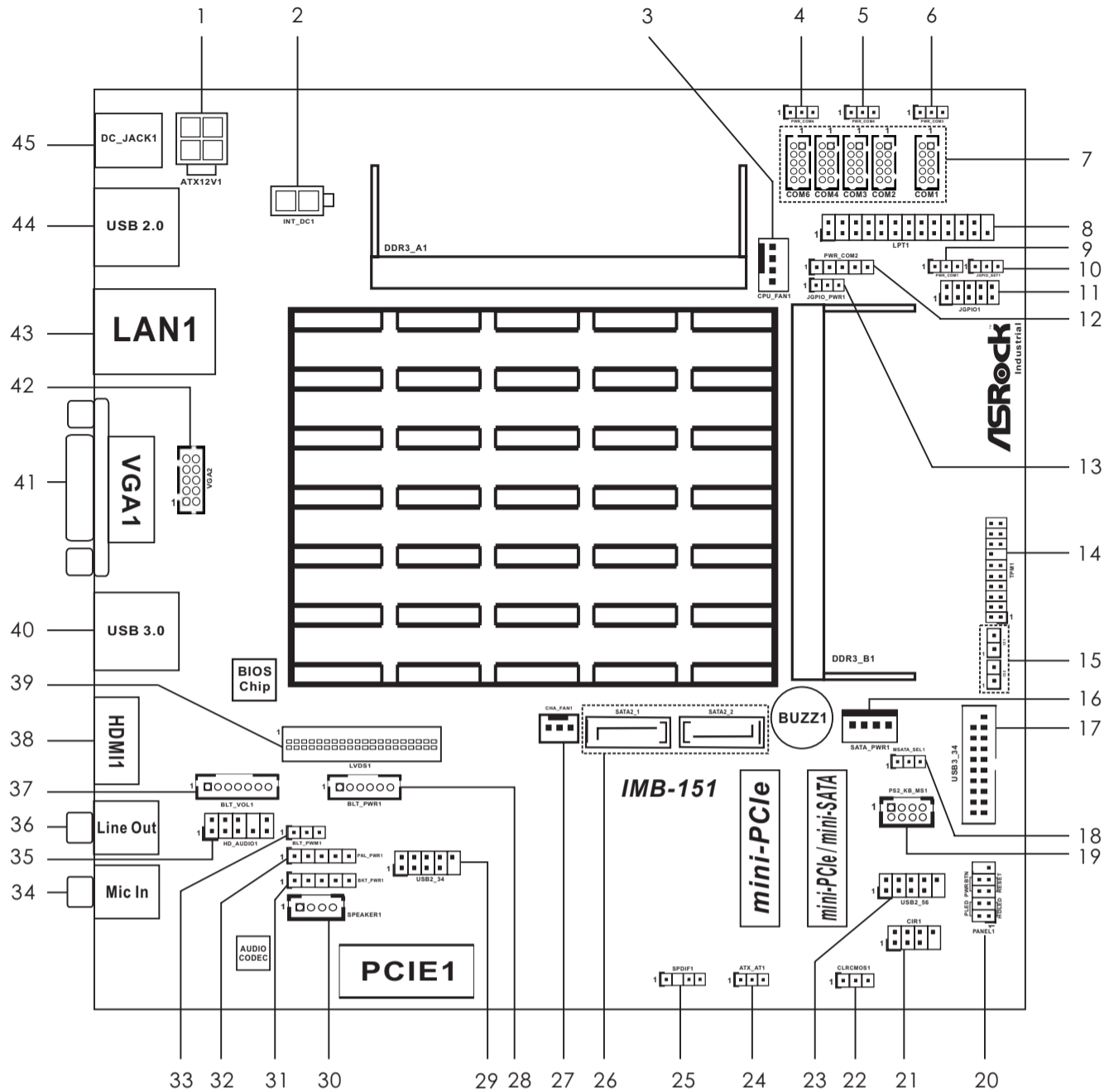




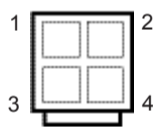
ASRock Jumpers and headers setting guide

IMB-151

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.

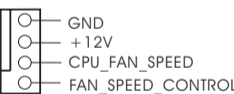


1 : ATX Power Connector
(Input 9V-19V)
1-2: GND
3-4: DC Input

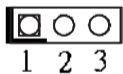


2 : 2-pin UPS Module Power Input Connector

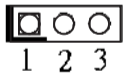
3 : 4-Pin CPU FAN Connector
(+12V)



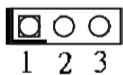
4 : PWR_COM6 Jumper
1-2: +5V
2-3: +12V



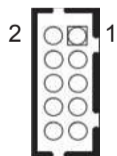
5 : PWR_COM4 Jumper
1-2: +5V
2-3: +12V



6 : PWR_COM3 Jumper
1-2: +5V
2-3: +12V



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



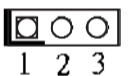
PIN	Signal Name	PIN	Signal Name
2	RRXD	1	DDCD#
4	DDTR#	3	TTXD
6	DDSR#	5	GND
8	CCTS#	7	RRTS#
10	NC	9	COM1/3/4/6: +5V/+12V COM2: +5V/+12V/+5VSB

COM1 Port Pin Definition

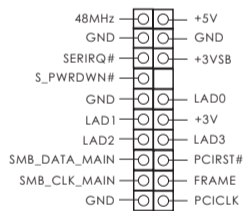
PIN	RS232	RS422	RS485
1	DCD	TX-	RTX-
2	RXD	RX+	N/A
3	TXD	TX+	RTX+
4	DTR	RX-	N/A
5	GND	GND	GND
6	DSR	N/A	N/A
7	RTS	N/A	N/A
8	CTS	N/A	N/A
9	+5V/+12V	+5V/+12V	+5V/+12V
10	NC	NC	NC

13 : Digital Input / Output Power Select

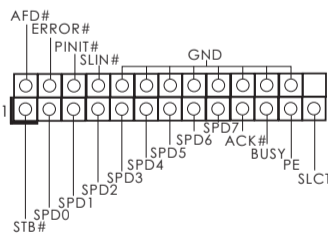
1-2: +12V
2-3: +5V



14 : TPM Header

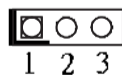


8 : Printer Port Header



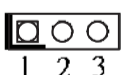
9 : PWR_COM1 Jumper

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



10 : JGPIO_SET1 Jumper

1-2: High
2-3: Low

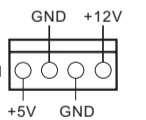


15 : Chassis Intrusion Headers

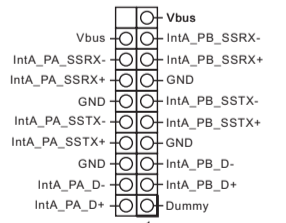
CI1:
Close: Active case open
Open: Normal
CI2:
Close: Normal
Open: Active case open



16 : SATA Power Output Connector

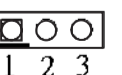


17 : USB3.0 Connector

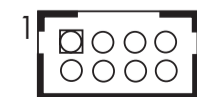


18 : mSATA Select

1-2: SATA2_2 + mini-PCle
2-3: mSATA, SATA2_2 no function



19 : PS2_KB_MS1

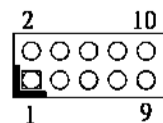


PIN	Signal Name
1	KBCLK
2	+5V
3	KBDATA
4	+5V
5	MSDATA
6	GND
7	MSCLK
8	GND

* 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.

11 : Digital Input / Output Pin Header

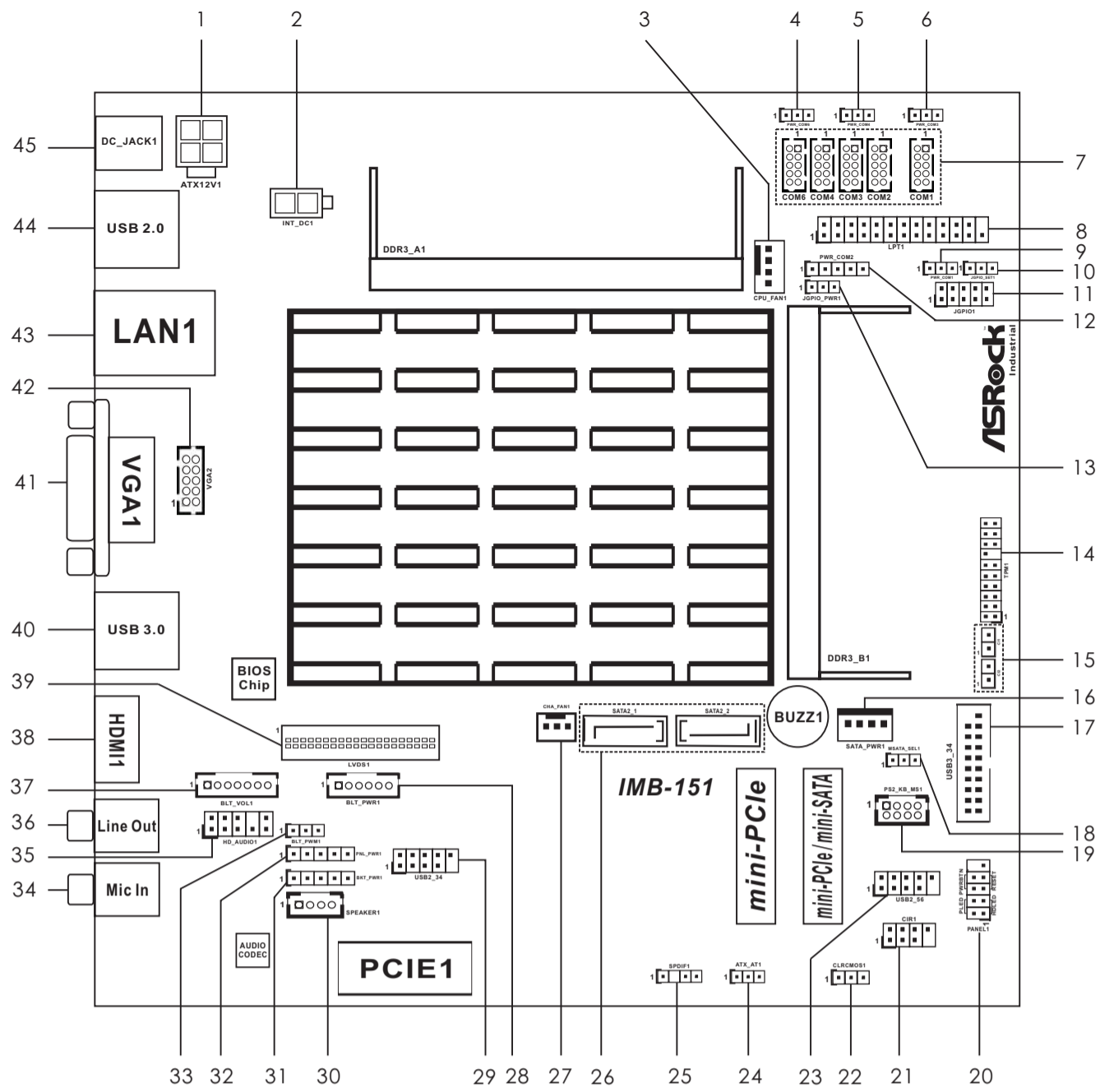
PIN	Signal Name	PIN	Signal Name
1	SIO_GP24	2	SIO_GP20
3	SIO_GP25	4	SIO_GP21
5	SIO_GP26	6	SIO_GP22
7	SIO_GP27	8	SIO_GP23
9	JGPIO_PWR	10	GND



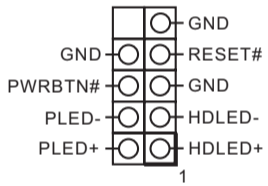
12 : PWR_COM2 Jumper

1-2: +5V
2-3: +12V
3-4: +12V
4-5: +5VSB

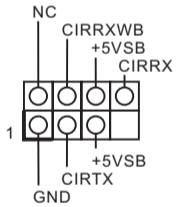




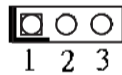
20 : System Panel Header



21 : CIR Header

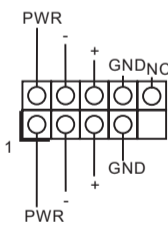


22 : Clear CMOS Header
1-2: Normal
2-3: Clear CMOS

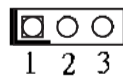


USB2.0 Connectors

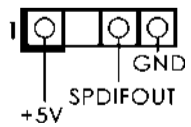
23 : USB2_56
29 : USB2_34



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

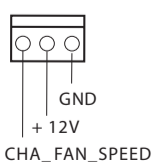


25 : SPDIF Header



26 : SATA2 Connectors

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



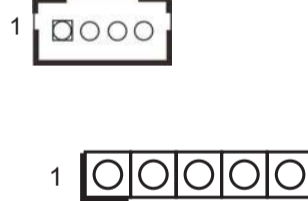
28 : Backlight Power Connector

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-

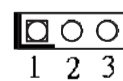


31 : Backlight Power Selection (LCD_BLT_VCC) (BKT_PWR1)
1-2: LCD_BLT_VCC: +5V
2-3: LCD_BLT_VCC: +12V
4-5: LCD_BLT_VCC: DC_IN

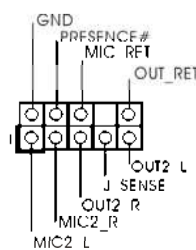
32 : Panel Power Selection (LCD_VCC) (PNL_PWR1)
1-2: LVDD: +3V
2-3: LVDD: +5V
4-5: LVDD: +12V



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



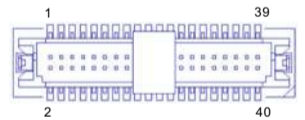
36 : Audio Jack (Green - Line Out)

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