



P/N: 15G06M052000AK V1.0

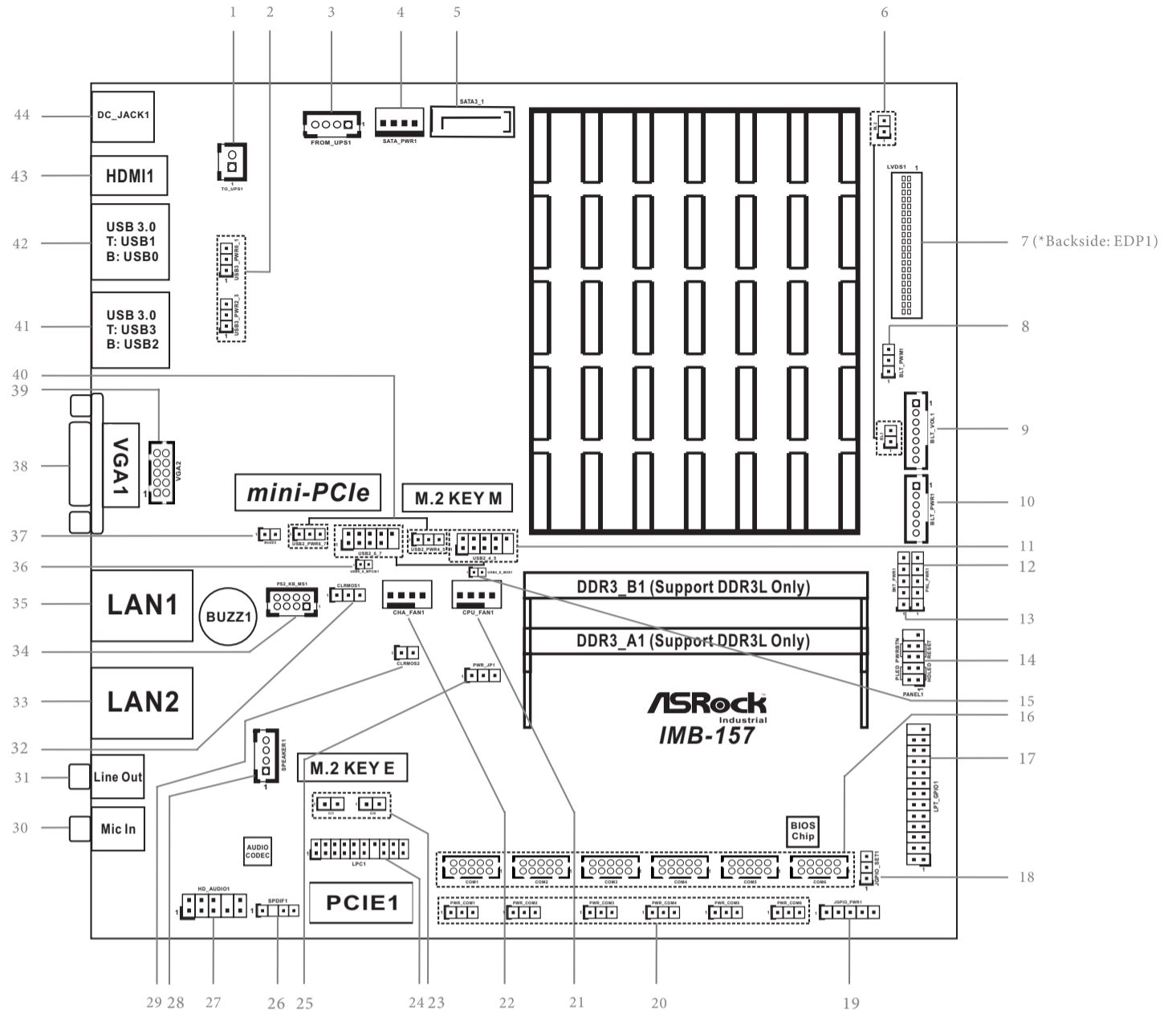


# Jumpers and Headers Setting Guide

## IMB-157

## IMB-157M

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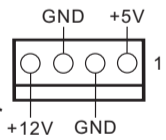
1 : 2-pin UPS Module Power Input Connector  
Pin1: GND  
Pin2: DC Input



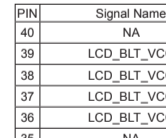
2 : USB Power Setting Jumpers  
(USB3\_PWR0\_1 (For USB3\_0\_1))  
(USB3\_PWR2\_3 (For USB3\_2\_3))  
1-2: +5V  
2-3: +5VSB



3 : 4-pin DC-in PWR Connector (Input +12V or +19V~+24V) & UPS Module Power Output Connector  
Pin1 and Pin4: GND  
Pin2 and Pin3: DC Input



4 : SATA Power Output Connector



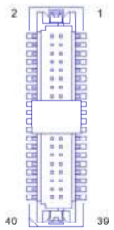
5 : SATA3 Connector (SATA3\_1)



6 : BL1, BL2

7 : 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	NC	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



\* eDP Connector  
(on the Backside of PCB)

8 : Backlight Control Level (BLT\_PWM1)  
1-2: From eDP PWM to CON\_LBKLT\_CTL  
2-3: From LVDS PWM to CON\_LBKLT\_CTL



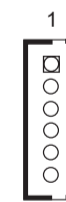
9 : Backlight Volume Control (BLT\_VOL1)

PIN	Signal Name
1	GPIO_VOL_UP
2	GPIO_VOL_DW
3	PWRDN
4	BRIGHTNESS_UP
5	BRIGHTNESS_DW
6	GND
7	GND

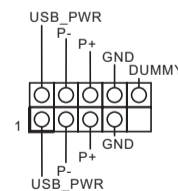


10 : Backlight Power Connector (BLT\_PWR1)

PIN	Signal Name
1	GND
2	GND
3	CON_LBKLT_CTL
4	CON_LBKLT_EN
5	LCD_BLT_VCC
6	LCD_BLT_VCC



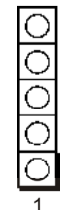
11 : USB2.0 Connectors  
(USB2\_4\_5, USB2\_6\_7)



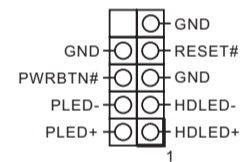
12 : Panel Power Select (LCD\_VCC)  
(PNL\_PWR1)  
1-2: LCD\_VCC: +3V  
2-3: LCD\_VCC: +5V  
4-5: LCD\_VCC: +12V



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

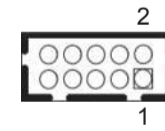


14 : System Panel Header



15 : USB4\_S\_M2E1  
Pin1 short USB2\_4\_5 pin3 and pin2 short USB2\_4\_5 pin5: share USB port 4 of USB2\_4\_5 header to M.2 KEY E

16 : Internal COM Port Headers  
COM1, 2 (RS232/422/485)  
COM3, 4, 5, 6 (RS232)

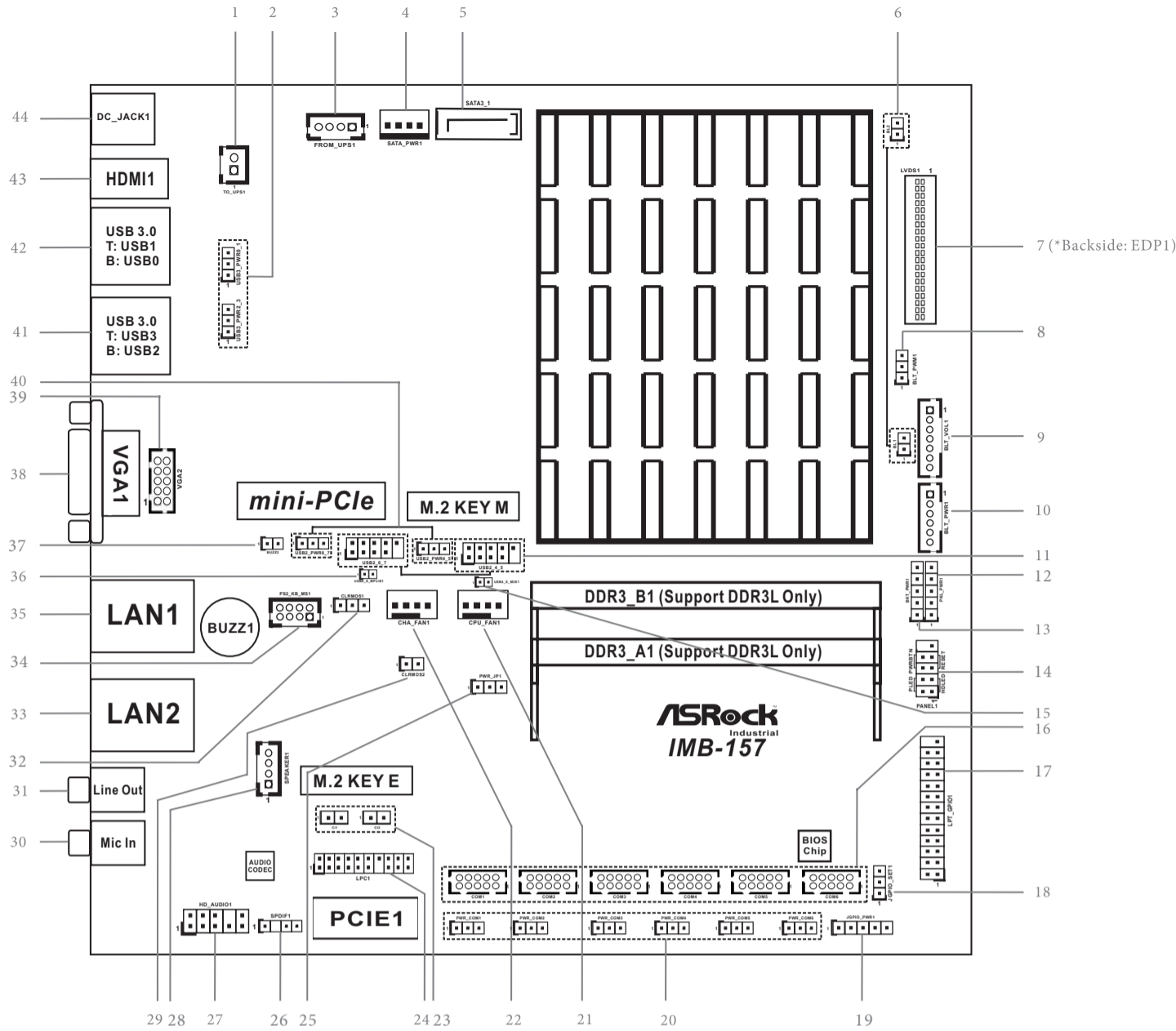


PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
10	N/A	8	CCTS#	6	DDSR#	4	DDTR#	2	RRXD
9	PWR	7	RRTS#	5	GND	3	TTXD	1	DDCD#

\* This motherboard supports RS232/422/485 on COM1, 2 ports. Please refer to below table for the pin definition. In addition, COM1, 2 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.

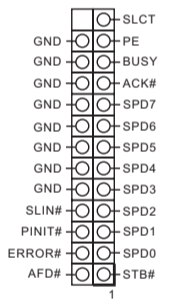
### COM1, 2 Port Pin Definition

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	PWR	PWR	PWR
10	N/A	N/A	N/A



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

Printer Port:



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	JGPIO_PWR	11	SIO_GP36
10	JGPIO_PWR	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).

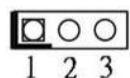
18 : Digital Input / Output Default Value Setting (JGPIO\_SET1)  
1-2: Pull-High  
2-3: Pull-Low



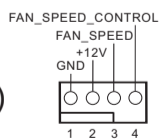
19 : Digital Input / Output Power Select (JGPIO\_PWR) (JGPIO\_PWR1)  
1-2: +12V  
2-3: +5V  
4-5: GND



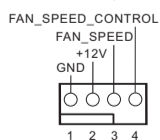
20 : COM Port Pin9 PWR Setting Jumpers PWR\_COM1 ~ 6 (For COM Port1 ~ 6)  
1-2: +5V  
2-3: +12V



21 : 4-Pin CPU FAN Connector (+12V)



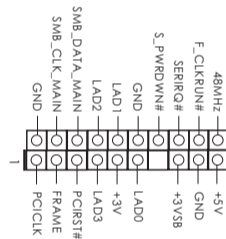
22 : 4-Pin Chassis FAN Connector (+12V)



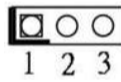
23 : Chassis Intrusion Headers  
C11:  
Close: Active Case Open  
Open: Normal  
C12:  
Close: Normal  
Open: Active Case Open



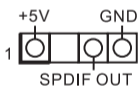
24 : LPC Header



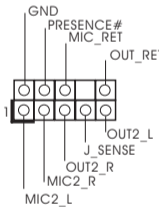
25 : ATX/AT Mode Select  
1-2: AT Mode  
2-3: ATX Mode



26 : SPDIF Header



27 : Front Panel Audio Header



28 : 3W Audio AMP Output Wafer

PIN	Signal Name
4	OUTRN
3	OUTRP
2	OUTLP
1	OUTLN

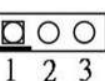


29 : Clear CMOS Jumper  
Open: Normal  
Short: Auto Clear CMOS When AC Power On



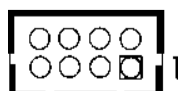
30 : Audio Output: Pink – Mic In  
31 : Audio Output: Green – Line Out

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



33 : RJ45 LAN Port (LAN2)

34 : PS2 Keyboard/Mouse Header



PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
8	GND	6	GND	4	USB2_PWR6_7	2	USB2_PWR6_7
7	MSCLK	5	MSDATA	3	KBDATA	1	KBCLK

M.2 KEY M (M2)

PIN#	Signal#	Signal#	PIN#
1#	GND#	+3.3V#	2#
3#	GND#	+3.3V#	4#
5#	NA#	NA#	6#
7#	NA#	NA#	8#
9#	GND#	NA	10#
11#	NA#	+3.3V#	12#
13#	NA#	+3.3V#	14#
15#	GND#	+3.3V#	16#
17#	NA#	+3.3V#	18#
19#	NA#	NA#	20#
21#	GND#	NA#	22#
23#	NA#	NA#	24#
25#	NA#	NA#	26#
27#	GND#	NA#	28#
29#	NA#	NA#	30#
31#	NA#	NA#	32#
33#	GND#	NA#	34#
35#	NA#	NA#	36#
37#	NA#	NA	38#
39#	GND#	SMB_CLK#	40#
41#	SATA_RX#	SMB_DATA#	42#
43#	SATA_RX#	NA#	44#
45#	GND#	NA#	46#
47#	SATA_TX#	NA#	48#
49#	SATA_TX#	NA	50#
51#	GND#	NA	52#
53#	NA	NA	54#
55#	NA	NA#	56#
57#	GND#	NA#	58#
67#	NA#	NA	68#
69#	GND#	+3.3V#	70#
71#	GND#	+3.3V#	72#
73#	GND#	+3.3V#	74#
75#	GND#		

M.2 KEY E (M2\_2)

PIN#	Signal#	Signal#	PIN#
1#	GND#	+3.3V#	2#
3#	USB_D#	+3.3V#	4#
5#	USB_D#	NA#	6#
7#	GND#	NA#	8#
9#	NA#	NA#	10#
11#	NA#	NA#	12#
13#	NA#	NA#	14#
15#	NA#	NA#	16#
17#	NA#	GND#	18#
19#	NA#	NA#	20#
21#	NA#	NA#	22#
23#			
33#	GND#	NA#	32#
35#	PETr#	NA#	34#
37#	PETr#	NA#	36#
39#	GND#	NA#	38#
41#	PETr#	NA#	40#
43#	PETr#	NA#	42#
45#	GND#	NA#	44#
47#	PEFCLK#	NA#	46#
49#	PEFCLK#	NA#	48#
51#	GND#	NA	50#
53#	CLKREQ#	PERSTO#	52#
55#	WAKE#	NA	54#
57#	GND#	NA	56#
59#	NA#	SMB_DATA#	58#
61#	NA#	SMB_CLK#	60#
63#	GND#	NA#	62#
65#	NA#	NA#	64#
67#	NA#	NA#	66#
69#	GND#	NA#	68#
71#	NA#	NA#	70#
73#	NA#	+3.3V#	72#
75#	GND#	+3.3V#	74#

35 : RJ45 LAN Port (LAN1)

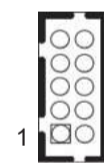
36 : USB6\_S\_MPCIE1  
Pin1 short USB2\_6\_7 pin3 and pin2 short USB2\_6\_7 pin5: share USB port 6 of USB2\_6\_7 header to MPCIE1

37 : Buzzer  
+5V Signal

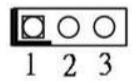
38 : VGA Port

39 : VGA Header

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



40 : USB Power Setting Jumpers (USB2\_PWR4\_5 (For USB2\_4\_5)) (USB2\_PWR6\_7 (For USB2\_6\_7 and PS2\_KB\_MS1))  
1-2: +5V  
2-3: +5VSB



41 : USB3.0 Ports (USB3\_2\_3)  
42 : USB3.0 Ports (USB3\_0\_1)  
43 : HDMI Port  
44 : DC Jack