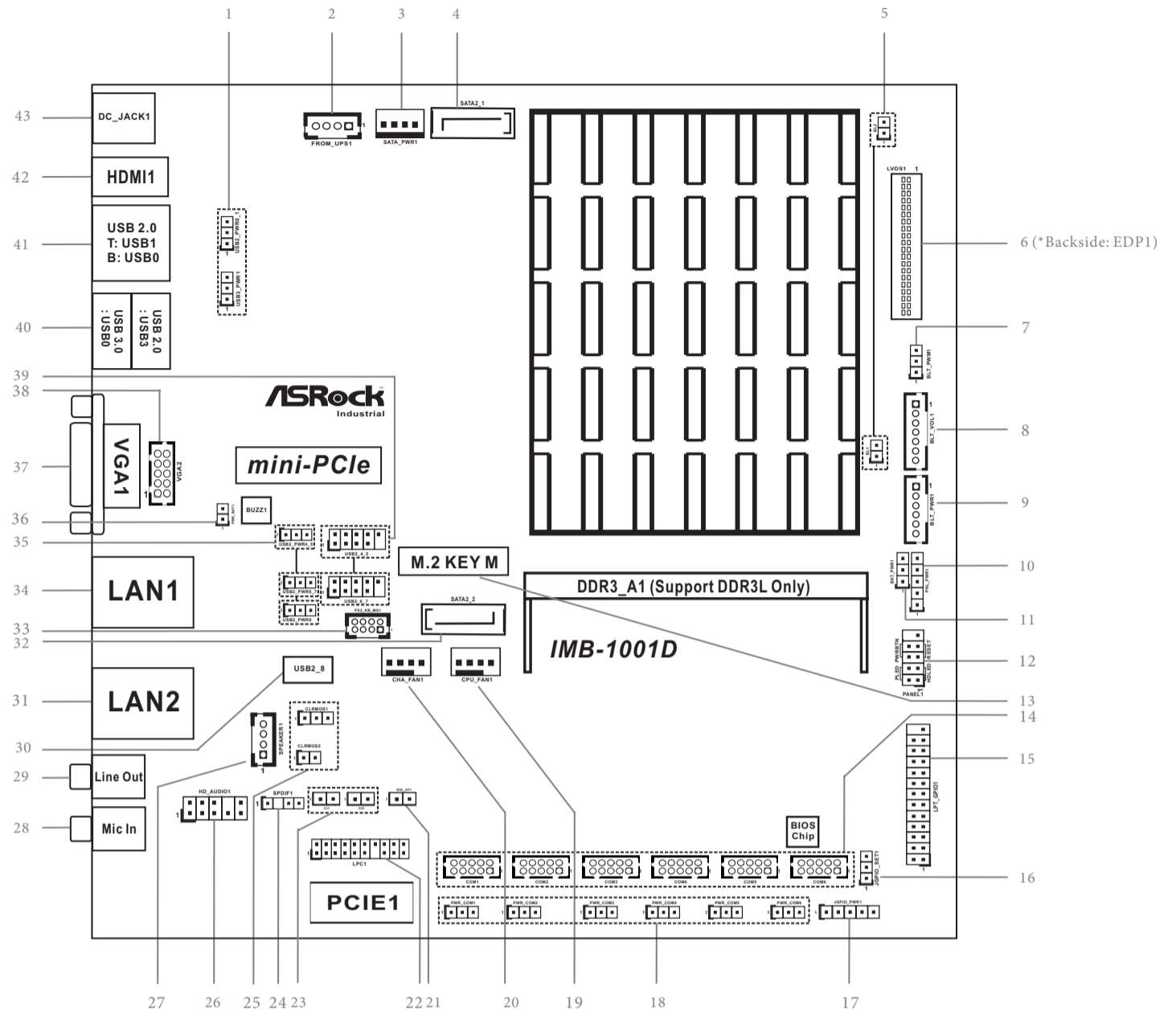


## IMB-1001D

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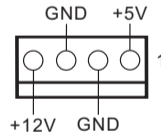
**1 : USB Power Setting Jumpers**  
 (USB3\_PWR1 (For USB3\_0\_USB2\_3))  
 (USB2\_PWR0\_1 (For USB2\_0\_1))  
 1-2: +5V  
 2-3: +5VSB



**2 : 4-pin DC-in PWR Connector (Input +12V) & UPS Module**  
 Power Output Connector  
 Pin1 and Pin4: GND  
 Pin2 and Pin3: DC Input



**3 : SATA Power Output Connector**



**4 : SATA2 Connector (SATA2\_1)**

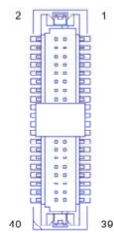


**5 : BL1, BL2**

PIN	Signal Name	PIN	Signal Name
40	NA	39	LCD_BLT_VCC
38	LCD_BLT_VCC	37	LCD_BLT_VCC
36	LCD_BLT_VCC	35	NA
34	NA	33	CON_LBKLT_CTL
32	CON_LBKLT_CTL	31	GND
30	GND	29	GND
28	GND	27	eDP_HPD_CON
26	GND	25	GND
24	GND	23	LCD_VCC
22	NA	21	LCD_VCC
20	LCD_VCC	19	LCD_VCC
18	LCD_VCC	17	LCD_VCC
16	LCD_VCC	15	LCD_VCC
14	GND	13	LCD_VCC
12	LCD_VCC	11	LCD_VCC
10	LCD_VCC	9	LCD_VCC
8	LCD_VCC	7	LCD_VCC
6	LCD_VCC	5	LCD_VCC
4	LCD_VCC	3	LCD_VCC
2	LCD_VCC	1	NA

**6 : LVDS Panel Connector**

PIN	Signal Name	PIN	Signal Name
2	LCD_VCC	1	LCD_VCC
4	LDCC_CLK	3	+3.3V
6	LVDS_A_DATA0#	5	LDCC_DATA
8	PD (Panel Detection)	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



\* PD (Panel Detection): Connect this pin to LVDS Panel's Ground pin to detect Panel detection.

\* eDP Connector (Optional) (on the Backside of PCB)

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



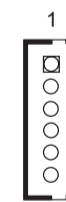
**8 : Backlight Volume Control (BLT\_VOL1)**

PIN	Signal Name
1	GPIOWOL_UP
2	GPIOWOL_DW
3	PWRDN
4	BRIGHTNESS_UP
5	BRIGHTNESS_DW
6	GND
7	GND



**9 : 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



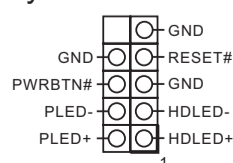
**10 : Panel Power Select (LCD\_VCC) (PNL\_PWR1)**  
 1-2: LCD\_VCC: +3V  
 2-3: LCD\_VCC: +5V  
 4-5: LCD\_VCC: +12V



**11 : Backlight Power Select (LCD\_BLT\_VCC) (BKT\_PWR1)**  
 1-2: LCD\_BLT\_VCC: +5V  
 2-3: LCD\_BLT\_VCC: +12V



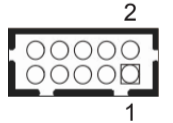
**12 : System Panel Header**



**13 : 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_RX0M	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#	#	#

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

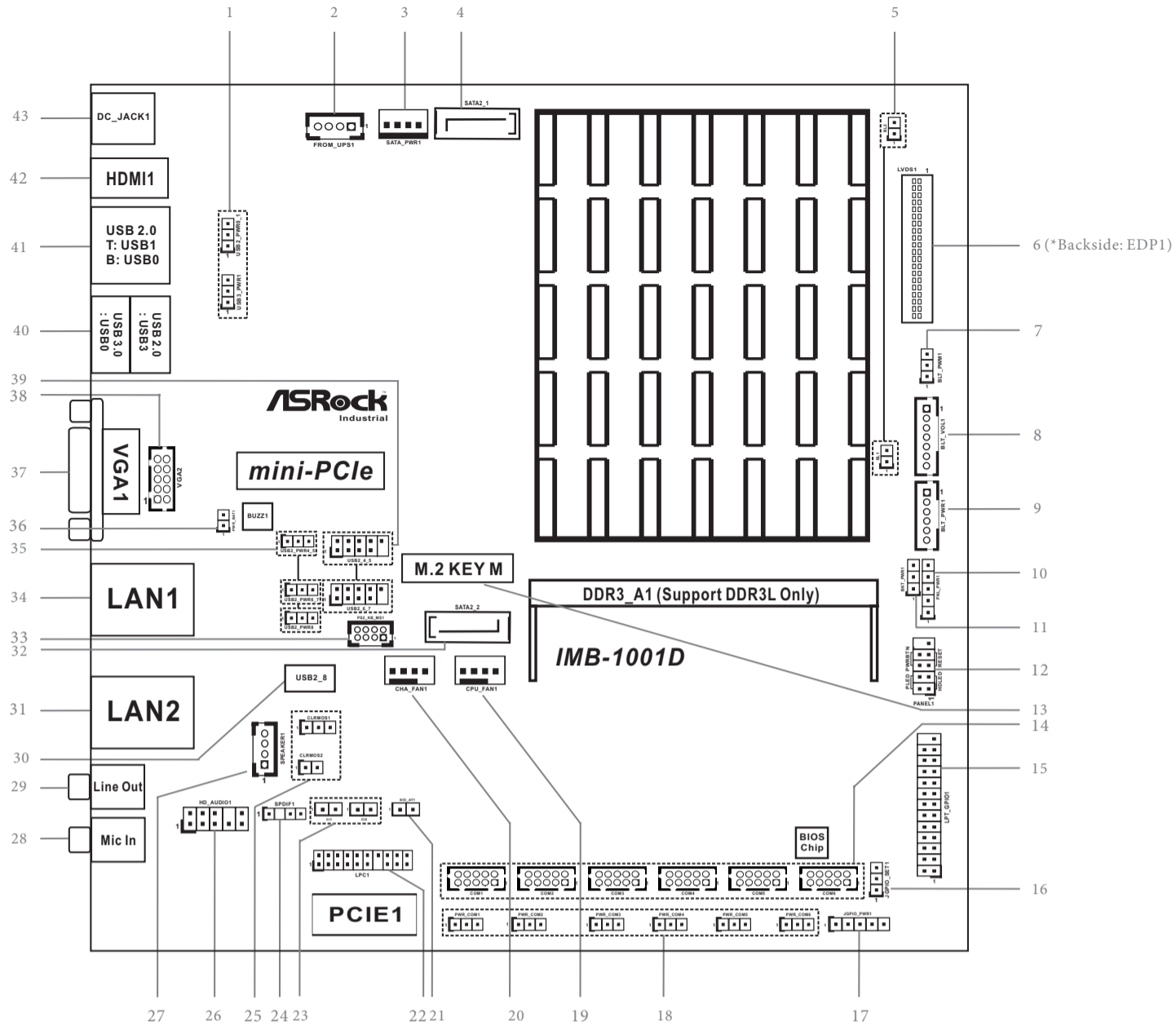


PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
10	N/A	8	CCTS#	6	DDSR#	4	DDTR#	2	RRXD
9	PWR	7	RRTS#	5	GND	3	TTXD	1	DDCD#

\* This motherboard supports RS232/422/485 on COM3 port. Please refer to below table for the pin definition. In addition, COM3 port (RS232/422/485) can be adjusted in BIOS setup utility > Advanced Screen > Super IO Configuration. You may refer to our user manual for details.

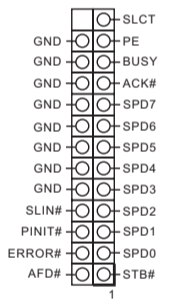
### COM3 Port Pin Definition

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



15 : 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).

16 : Digital Input / Output Default Value Setting (JGPIO\_SET1)

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



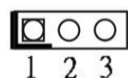
17 : Digital Input / Output Power Select (JGPIO\_PWR) (JGPIO\_PWR1)

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

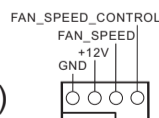


18 : COM Port Pin9 PWR Setting Jumpers PWR\_COM1 ~ 6 (For COM Port1 ~ 6)

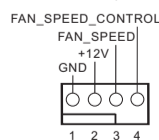
1-2: +5V  
2-3: +12V



19 : 4-Pin CPU FAN Connector (+12V)



20 : 4-Pin Chassis FAN Connector (+12V) (Optional)



21 : SIO\_AT1  
Open: ATX Mode  
Short: AT Mode

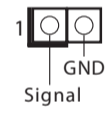


22 : LPC Header

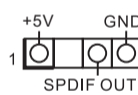
23 : Chassis Intrusion Headers

CI1:  
Close: Active Case Open  
Open: Normal

CI2:  
Close: Normal  
Open: Active Case Open



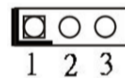
24 : SPDIF Header



25 : Clear CMOS Headers

CLRMO1 :  
1-2: Normal  
2-3: Clear CMOS

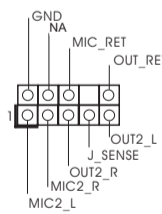
CLRMO2 :  
Open: Normal  
Short: Auto Clear CMOS (Power Off)



26 : Front Panel Audio Header

27 : 3W Audio AMP Output Wafer

PIN	Signal Name
4	OUTRN
3	OUTRP
2	OUTLP
1	OUTLN



28 : Audio Output: Pink – Mic In

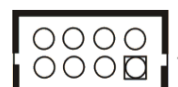
29 : Audio Output: Green – Line Out

30 : USB2.Port (USB2\_8)

31 : RJ45 LAN Port (LAN2)

32 : SATA2 Connector (SATA2\_2)  
(Shared with M.2 KEY M (M2))

33 : PS2 Keyboard/Mouse Header

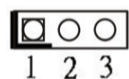


PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
8	GND	6	GND	4	USB2_PWR6_7	2	USB2_PWR6_7
7	MSCLK	5	MSDATA	3	KBDATA	1	KBCLK

34 : RJ45 LAN Port (LAN1)

35 : USB Power Setting Jumpers  
(USB2\_PWR4\_5 (For USB2\_4\_5))  
(USB2\_PWR6\_7 (For USB2\_6\_7))  
(USB2\_PWR8 (For USB2\_8))

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



36 : PWR\_BAT1

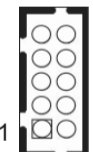
Open: Normal  
Short: Charge Battery



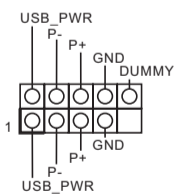
37 : VGA Port

38 : VGA Header (VGA2)

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



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



40 : Top : USB2.0 Port (USB2\_3)  
Bottom : USB3.0 Port (USB3\_0)  
41 : USB2.0 Ports (USB2\_0\_1)  
42 : HDMI Port  
43 : DC Jack