



ASRock 4X4-R2000 Jumpers and Headers Installation Guide

[Home](#) » [ASRock](#) » ASRock 4X4-R2000 Jumpers and Headers Installation Guide 

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Contents

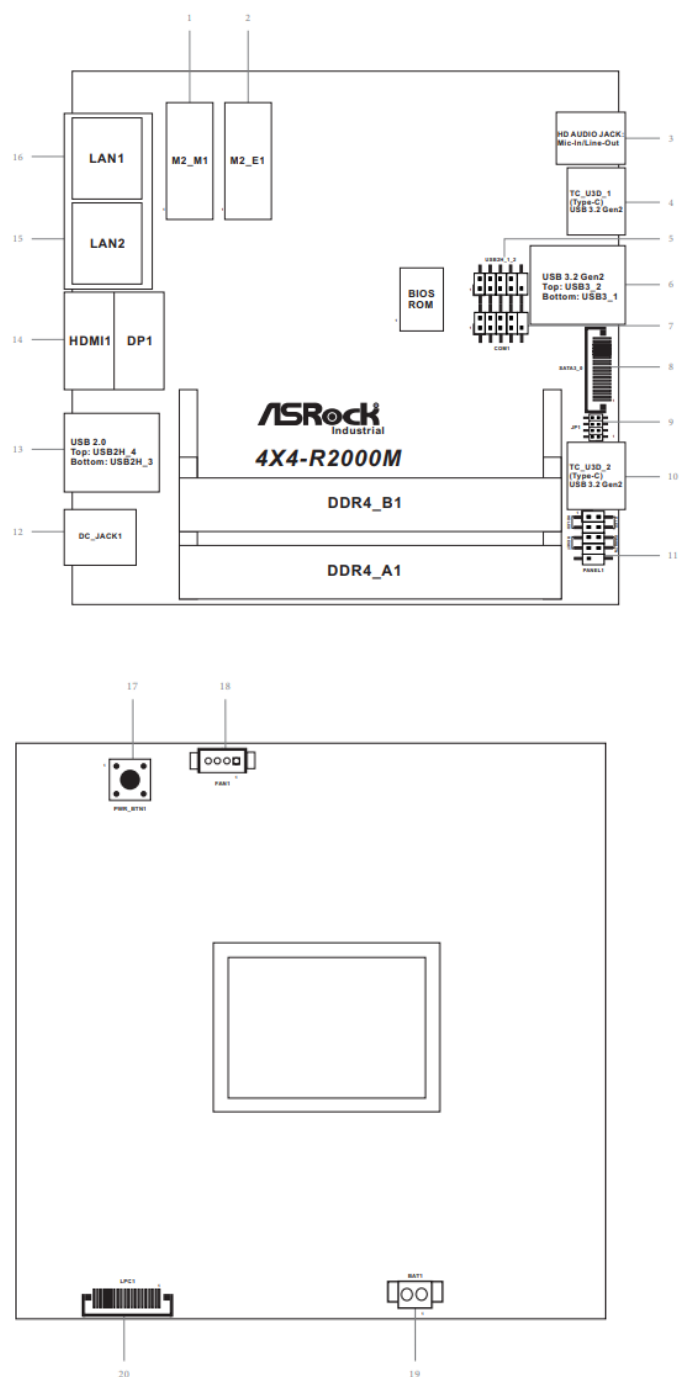
- [1 Jumpers and Headers Setting Guide](#)
- [2 Documents / Resources](#)
 - [2.1 References](#)
- [3 Related Posts](#)

Jumpers and Headers Setting Guide

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Revision History

Date	Description
December 20, 2023	First Release



1. M.2 Key-M Socket (M2_M1)

Pin	Signal	Signal	Pin
1	GND	+3.3V	2
3	GND	+3.3V	4
5	N/C	N/C	6
7	N/C	N/C	8
9	GND	LED#	10
11	N/C	+3V	12

13	N/C	+3V	14
15	GND	+3V	16
17	N/C	+3V	18
19	N/C	N/C	20
21	GND	N/C	22
23	N/C	N/C	24
25	N/C	N/C	26
27	GND	N/C	28
29	N/C	N/C	30
31	N/C	N/C	32
33	GND	USB_D+	34
35	N/C	USB_D-	36
37	N/C	N/C	38
39	GND	SMB_CLK	40
41	PERn0/SATA-B+	SMB_DATA	42
43	PERp0/SATA-B-	N/C	44
45	GND	N/C	46
47	PETn0/SATA-A-	N/C	48
49	PETp0/SATA-A+	PERST#	50
51	GND	CLKREQ#	52
53	REFCLKn	WAKE#	54
55	REFCLKp	N/C	56
57	GND	N/C	58
67	N/C	SUSCLK	68
69	PEDET	+3.3V	70
71	GND	+3.3V	72
73	GND	+3.3V	74

75	GND		
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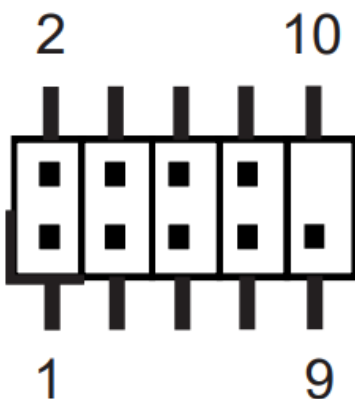
2. M.2 Key-E Socket (M2_E1)

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	NA		
		NA	32
33	GND	NA	34
35	PETp	NA	36
37	PETn	NA	38
39	GND	NA	40
41	PERp	NA	42
43	PERn	NA	44
45	GND	NA	46
47	PEFCLKp	NA	48
49	PEFCLKn	SUSCLK	50
51	GND	PERST0#	52
53	CLKREQ#	W_DISABLE1#	54

55	NA	W_DISABLE2#	56
57	GND	SMB_DATA	58
59	NA	SMB_CLK	60
61	NA	NA	62
63	GND	NA	64
65	NA	NA	66
67	NA	NA	68
69	GND	NA	70
71	NA	+3.3V	72
73	NA	+3.3V	74
75	GND		

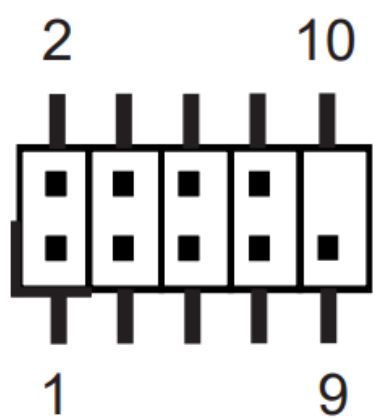
3. HD AUDIO JACK: Mic-In/Line-Out
4. USB 3.2 Gen2/DP Type-C Port (TC_U3D_1)
5. USB 2.0 Connector (USB2H_1_2)

Pin	Signal Name	Signal Name	Pin
1	USB_PWR	USB_PWR	2
3	-A	-B	4
5	+A	+B	6
7	GND	GND	8
9	DUMMY		10



6. USB 3.2 Gen2 Ports (USB3_1_2)
7. COM Port Header (COM1) (RS-232/422/485)*

Pin	Signal Name	Signal Name	Pin
1	DDCD#1	RRXD1	2
3	TTXD1	DDTR#1	4
5	GND	DDSR#1	6
7	RRTS#1	CCTS#1	8
9	PWR		10



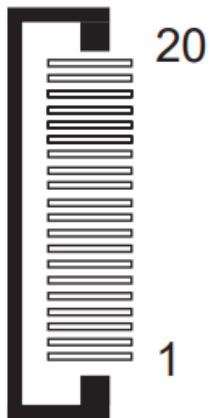
This motherboard supports RS232/422/485 on COM1 port. Please refer to the table below for the pin definition. In addition, COM1 port (RS232/422/485) can be adjusted in BIOS setup utility > Advanced Screen > Super IO Configuration. You may refer to our user manual for details.

COM1 Port Pin Definition

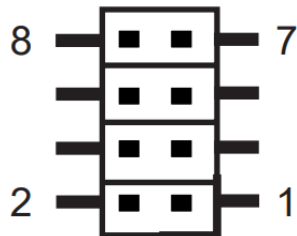
Pin	RS232	RS422	RS485
1	DCD	TX-	RTX-
2	RXD	TX+	RTX+
3	TXD	RX+	N/A
4	DTR	RX-	N/A
5	GND	GND	GND
6	DSR	N/A	N/A
7	RTS	N/A	N/A
8	CTS	N/A	N/A
9	PWR	PWR	PWR

8. SATA3 Port (SATA3_0)

Pin	Signal Name
1	GND
2	SATA0_TXP
3	SATA0_TXN
4	GND
5	GND
6	SATA0_RXN
7	SATA0_RXP
8	GND
9	GND
10	GND
11	NC
12	+5V
13	+5V
14	+5V
15	+5V
16	+5V
17	NC
18	GND
19	GND
20	GND



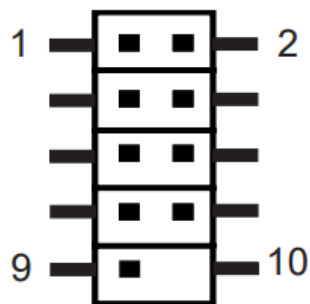
9. JP1 1-2 : SIO AT Mode (Default Open: SIO ATX Mode) 3-4 : CMOS Normal 4-6 : Clear CMOS.



10. USB 3.2 Gen2/DP Type-C Port (TC_U3D_2).

11. System Panel Header (PANEL1)

Pin	Signal Name	Signal Name	Pin
1	HDLED+	PLED+	2
3	HDLED-	PLED-	4
5	GND	PWRBTN#	6
7	RESET#	GND	8
9	DUMMY		10



12. DC-In Jack (DC_JACK1)

13. USB 2.0 Ports (USB2H_3_4)

14. Top : DisplayPort (DP1)

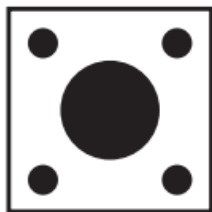
Bottom : HDMI Port (HDMI1)

15. RJ-45 LAN Port (LAN2)

16. RJ-45 LAN Port (LAN1)

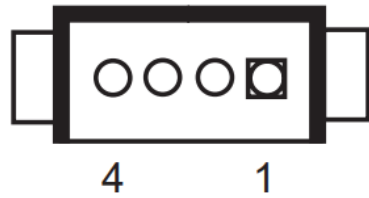
Back Side

17. Power Button (PWR_BTN1)



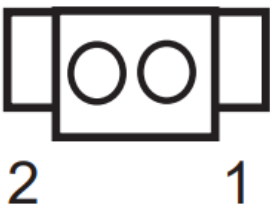
18. Fan Connector (FAN1)

Pin	Signal Name
1	GND
2	+5V
3	FAN_SPEED
4	FAN_SPEED_CONTROL



19. Battery Connector (BAT1)

Pin	Signal Name
1	+BAT
2	GND



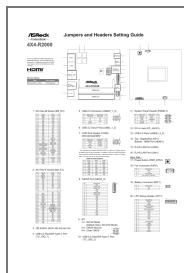
20. LPC Debug Header (LPC1)

Pin	Signal Name
1	PCICLK
2	GND
3	FRAME
4	SMB_CLK_MAIN
5	PCIRST#
6	SMB_DATA_MAIN
7	LAD3
8	LAD2
9	+3V
10	LAD1
11	LAD0
12	GND
13	
14	S_PWRDWN#
15	+3VSB
16	SERIRQ#
17	GND
18	GND
19	+5V
20	48MHz



ASRock®

Documents / Resources



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4X4-R2000, 4X4-R2000V, 4X4-R2000M, 4X4-R2000 Jumpers and Headers, Jumpers and Headers, Headers

References

- [User Manual](#)