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ASRock DSC-
NV002-WT
Jumpers and
Headers



ASRock DSC-NV002-WT Jumpers and Headers User Guide

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ASRock DSC-NV002-WT Jumpers and Headers



Product Specifications

- Product Model: DSC-NV002-WT
- Interfaces: USB 2.0, USB 3.2 Gen2, LAN, COM, HDMI, DC_IN, MIPI, POE_PWR, JI2C1, M.2 Key-E, Key-B, Key-M
- Connectors: Micro USB Port, DB15 Connectors, Boot Select, Reset Button, 12V/30W Out for POE

Product Usage Instructions

Setting Jumpers and Headers:

Follow the pin configurations mentioned in the user manual to set up jumpers and headers correctly for various functions.

Connecting to Multimedia Devices:

Use the HDMI port labeled 'BOT: HDMI' to connect the device to multimedia interfaces like TVs or monitors.

USB Connections:

Utilize the USB ports – USB2H_1, USB2H_2, and USB3_1, USB3_2 for connecting external devices like keyboards, mice, or storage devices.

LAN Connection:

Connect to a LAN network using LAN1 or LAN2 ports based on your requirements.

Power and Reset Functions

Use the PWRBTN1 button for power control and RST#_BTN1 button for resetting the device when needed.

Frequently Asked Questions (FAQ)

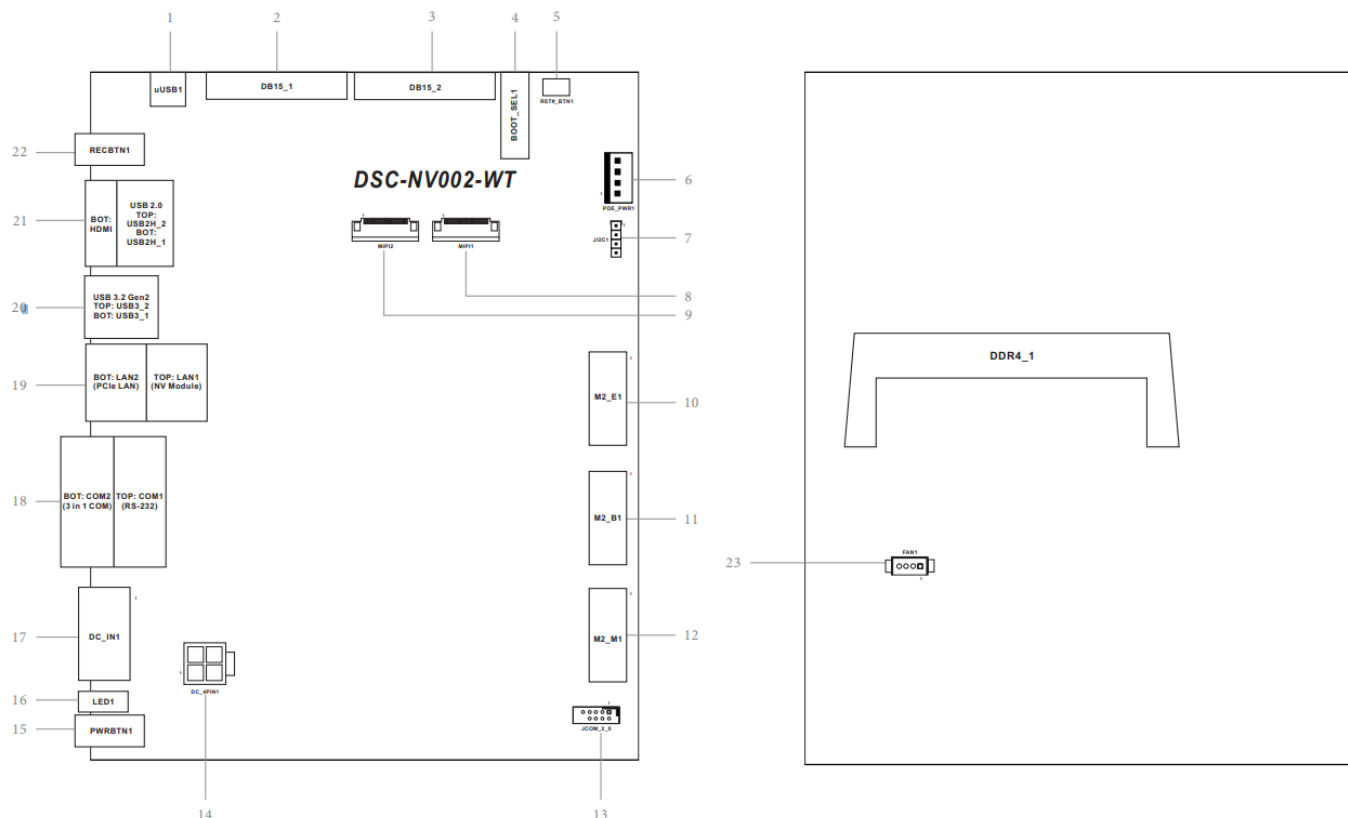
- Q: How do I know which jumper/header settings to use?

A: Refer to the user manual for specific functions and pin configurations to set up the jumpers and headers correctly.

• **Q: Can I connect multiple devices to the USB ports simultaneously?**

A: Yes, you can connect multiple devices to the available USB ports as per your requirements.

Jumpers and Headers Setting Guide



DSC-NV002-WT

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.

Revision History

Date	Description
December 28, 2022	First Release
March 27, 2024	Second Release
April 2, 2024	Third Release
July 9, 2024	Fourth Release
September 5, 2024	Fifth Release

Assembly

1. Micro USB Port (uUSB1)
2. DB15 Connector (DB15_1)

Pin	Signal Name
1	DI_1
2	DI_2
3	DI_3
4	DI_4
5	GND
6	GND
7	PLED+
8	PLED-
9	+5V/1A
10	PWR BTN#
11	DO_1
12	DO_2
13	DO_3
14	DO_4
15	RST BTN#

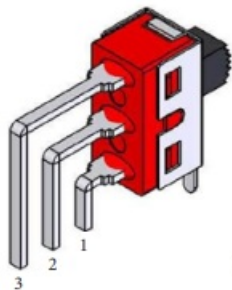
3. DB15 Connector (DB15_2)

Pin	Signal Name
1	SPI_3V_SCL
2	SPI_3V_MISO
3	SPI_3V_MOSI
4	SPI_3V_CS0
5	SPI_3V_CS1
6	GND
7	GND
8	GND
9	GND
10	GND
11	I2C_3V_SDA
12	I2C_3V_SCL
13	CAN_H
14	CAN_L
15	+3V/1A

4. Boot Select (BOOT_SEL1)

- 1- 2 : Auto Boot
- 2- 3 : No Auto Boot

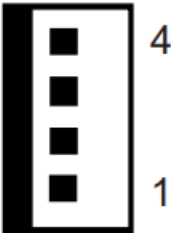
5.



Reset Button (RST#_BTN1)

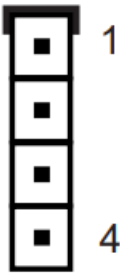
6. 12V/30W Out for POE (POE_PWR1)

Pin	Signal Name
1	+5V (Default)/ +12V (BOM option)
2	GND
3	GND
4	+12V



7. JI2C1 Header

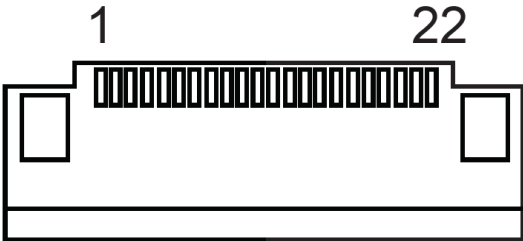
Pin	Signal Name
1	I2C1_SDA_JI2C
2	I2C1_SCL_JI2C
3	GND
4	+3V



MIPI Headers

8. MIPI1

9. MIPI2



Pin	MIPI1 Signal Name	MIPI2 Signal Name
1	+3V	+3V
2	CAM0_I2C_SDA	CAM1_I2C_SDA
3	CAM0_I2C_SCL	CAM1_I2C_SCL
4	GND	GND
5	CAM0_MCLK	CAM1_MCLK
6	CAM0_PWDN	CAM1_PWDN
7	GND	GND
8	CSI1_D1_P	CSI3_D1_P
9	CSI1_D1_N	CSI3_D1_N
10	GND	GND
11	CSI1_D0_P	CSI3_D0_P
12	CSI1_D0_N	CSI3_D0_N
13	GND	GND
14	CSI0_CLK_P	CSI2_CLK_P
15	CSI0_CLK_N	CSI2_CLK_N
16	GND	GND
17	CSI0_D1_P	CSI2_D1_P
18	CSI0_D1_N	CSI2_D1_N
19	GND	GND
20	CSI0_D0_P	CSI2_D0_P
21	CSI0_D0_N	CSI2_D0_N
22	GND	GND

10. M.2 Key-E Socket (M2_E1)

Pin	Signal Name	Signal Name	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	WAKE#	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		

11. Key-B Socket (M2_B1)

Pin	Signal Name	Signal Name	Pin
1	NA	+3.3V	2
3	GND	+3.3V	4
5	GND	FuLL_Card_ Power_off	6
7	USB_D+	W_DISABLE	8
9	USB_D-	WWAN_LED#	10
11	GND		
		NA	20
21	GND	NA	22
23	NA	NA	24
25	NA	NA	26
27	GND	NA	28
29	USB3_RX-	UIM_RESET	30
31	USB3_RX+	UIM_CLK	32
33	GND	UIM_DATA	34
35	USB3_TX-	UIM_PWR	36

37	USB3_TX+	NA	38
39	GND	NA	40
41	PERn0	NA	42
43	PERp0	NA	44
45	GND	NA	46
47	PETn0	NA	48
49	PETp0	PERST#	50
51	GND	CLKREQ#	52
53	PEFCLKn	WAKE#	54
55	PEFCLKp	NA	56
57	GND	NA	58
59	NA	NA	60
61	NA	NA	62
63	NA	NA	64
65	NA	M2B_SIM_ DETECT	66
67	NA	NA	68
69	NA	+3.3V	70
71	GND	+3.3V	72
73	GND	+3.3V	74
75	NA		

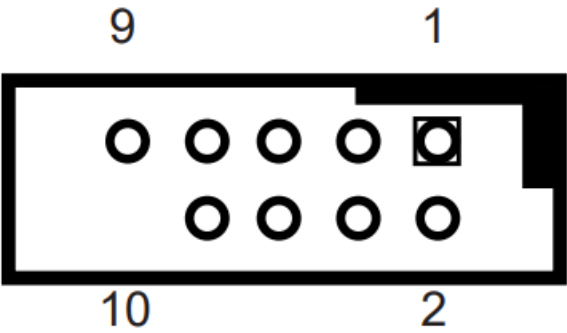
12. M.2 Key-M Socket (M2_M1)

Pin	Signal Name	Signal Name	Pin
1	GND	+3.3V	2
3	GND	+3.3V	4
5	PERn3	NA	6
7	PERp3	NA	8

9	GND	LED#	10
11	PETn3	+3.3V	12
13	PETp3	+3.3V	14
15	GND	+3.3V	16
17	PERn2	+3.3V	18
19	PERp2	NA	20
21	GND	NA	22
23	PETn2	NA	24
25	PETp2	NA	26
27	GND	NA	28
29	PERn1	NA	30
31	PERp1	NA	32
33	GND	NA	34
35	PETn1	NA	36
37	PETp1	NA	38
39	GND	SMB_CLK	40
41	PERn0	SMB_DATA	42
43	PERp0	NA	44
45	GND	NA	46
47	PETn0	NA	48
49	PETp0	PERST#	50
51	GND	CLKREQ#	52
53	PEFCLKn	WAKE#	54
55	PEFCLKp	NA	56
57	GND	NA	58
67	NA	NA	68

69	PEDET	+3.3V	70
71	GND	+3.3V	72
73	GND	+3.3V	74
75	GND		

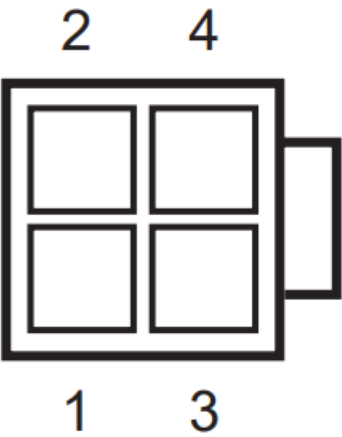
13. JCOM_2_0 Header



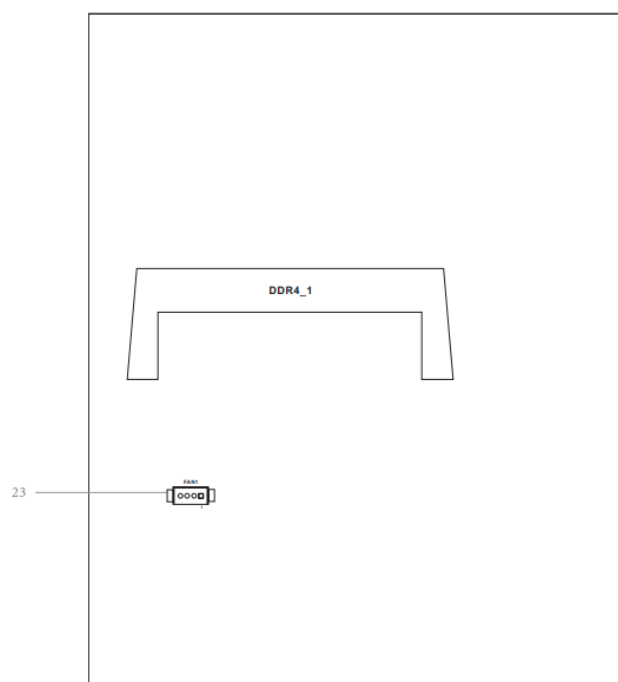
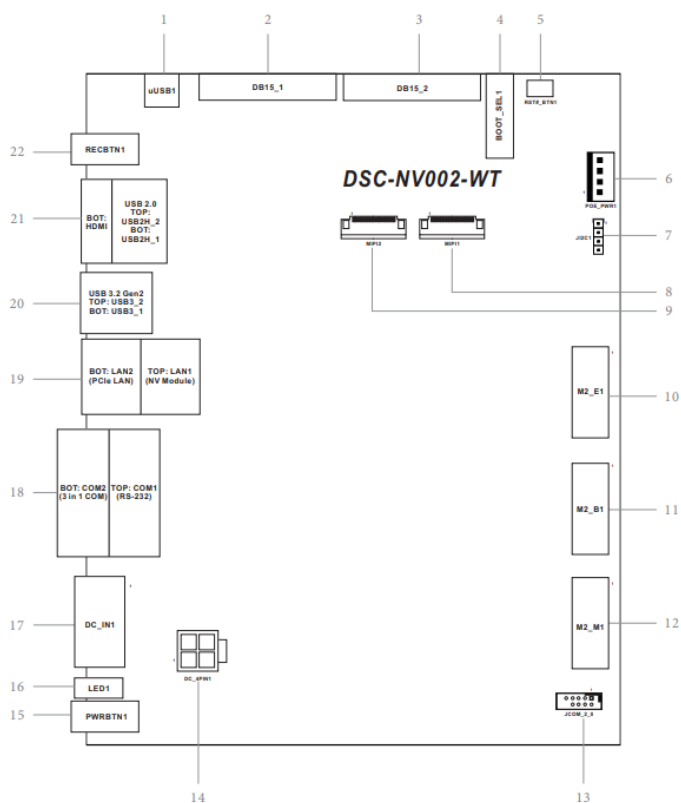
Pin	Signal Name	Signal Name	Pin
1	X	COM2_RX_232	2
3	COM2_TX_232	X	4
5	GND	X	6
7	UART0_TXD_3V	UART0_RXD_3V	8
9	GND		10

14. DC_4PIN1

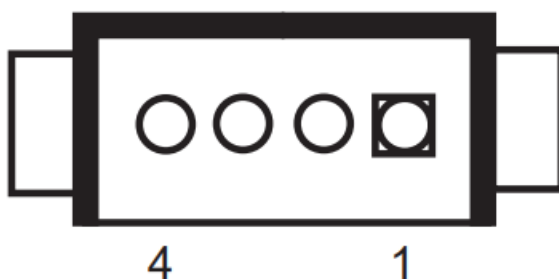
Pin	Signal Name	Signal Name	Pin
1	GND	GND	2
3	+USBC_PWR	+USBC_PWR	4



15. Power Button (PWRBTN1)
16. LED (LED1)
Top : Type C PWR_LED
Bottom : SSD LED
17. DC_IN1
Pin1 : GND_Shield Pin2 : V-
Pin3 : V+ (+12V~+36V)
18. Top : COM1 (RS232)
Bottom : COM2 (RS232/422/485)
19. Top : RJ45 LAN Port (LAN1_NV Module)
Bottom : RJ45 LAN Port (LAN2_PCIe LAN)
20. Top : USB3.2 Gen2 Port (USB3_2)

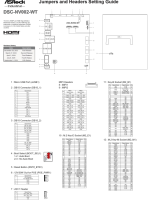


- Bottom : USB3.2 Gen2 Port (USB3_1)
21. Top : USB2.0 Port (USB2H_2)
Middle : USB2.0 Port (USB2H_1)
Bottom : HDMI
22. Recovery Button (RECBTN1)
23. Fan Connector (FAN1)



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

Documents / Resources

	ASRock DSC-NV002-WT Jumpers and Headers [pdf] User Guide DSC-NV002-WT Jumpers and Headers, DSC-NV002-WT, Jumpers and Headers, Headers
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References

- [User Manual](#)

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