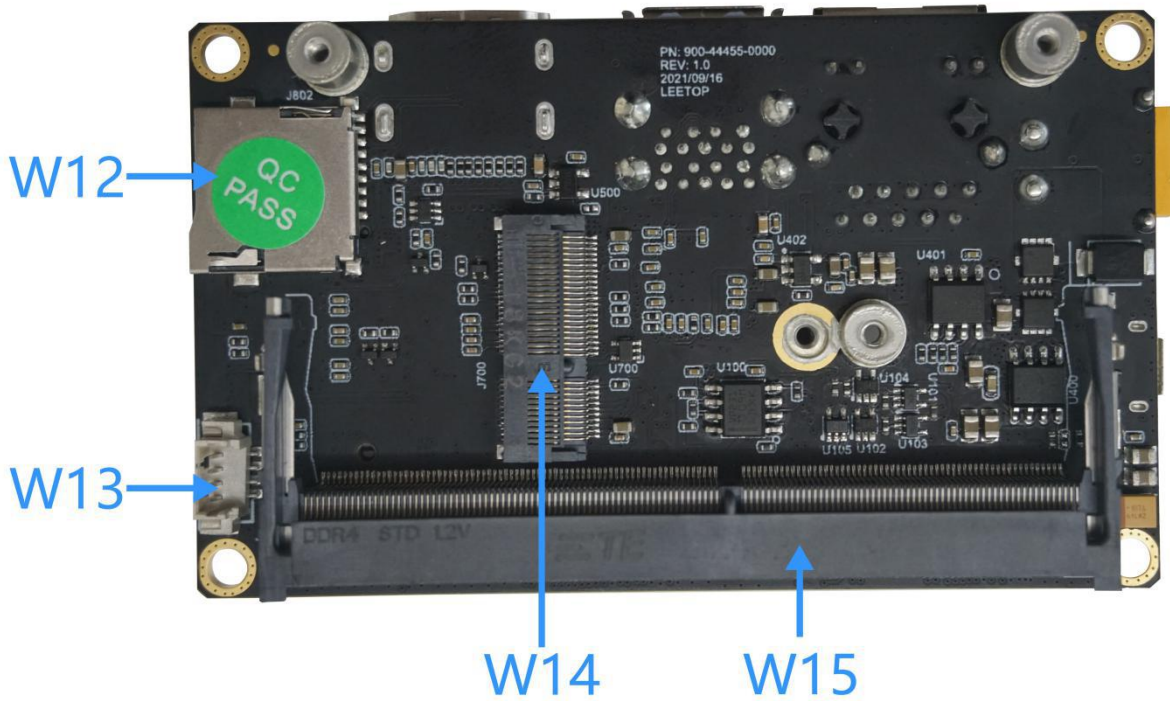
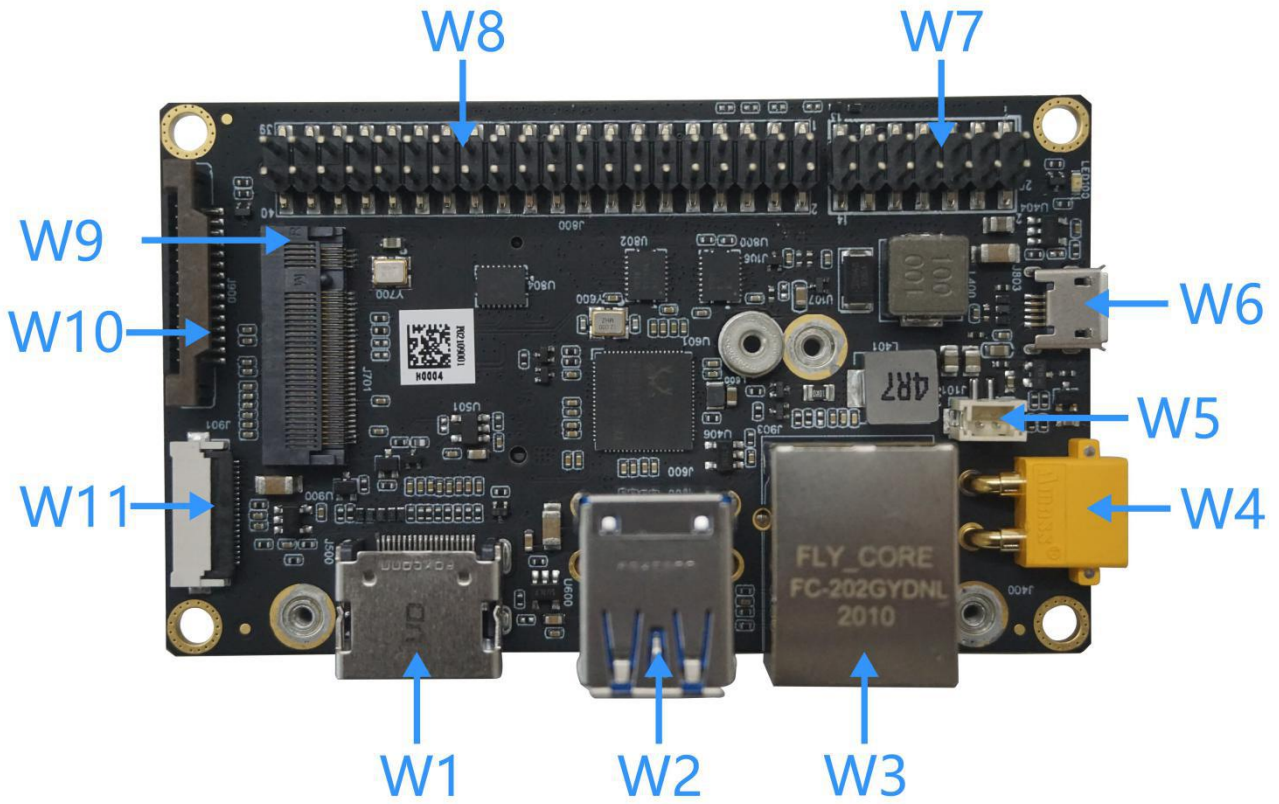


A203 V2

Feature	Carrier for NVIDIA Jetson NX/Nano
PCB Size / Overall Size	87mm x 52mm
Display	1x HDMI
Ethernet	1x Gigabit Ethernet (10/100/1000)
USB	2x USB 3.0 Type A (Integrated USB 2.0) 1x USB 3.0 0.5mm pitch 20P ZIF 1x USB 2.0 15 Pin/1x USB 2.0 Micro-AB
M.2 KEY M	1x M.2 KEY M (NVMe SSD)
Serial	1x CAN
Camera	1x CSI CAMERA
M.2 KEY E PCIE	1x PCIE 2242 SIZE
I2S	1x I2S(3.3V Level)
Misc.	2x I2C Link (+3.3V I/O) 5x GPIO 1x UART 2x SPI
Power Requirements	+9V to +19V DC Input @ 3A
Operating Temperature	-25°C to +65°
Weight	100g
Accessories	Cables

接口位置



Label	Name	Description
W1	HDMI Port	HDMI Right Angle Vertical Connector
W2	USB 3.0 Type A	USB 3.0 Link 1 Type A Connector
W3	NVIDIA Gigabit Ethernet	RJ45 Gigabit Ethernet Connector (10/100/1000)
W4	DC Power	DC Input Power TE Connector
W5	3V LITHIUM BATTERY	3V Lithium Battery Connector
W6	USB 2.0	USB 2.0 Link 0 Micro-AB Connector
W7	Multifunctional port	2.54 PITCH 14 PIN
W8	Multifunctional port	2.54 PITCH 40 PIN
W9	M.2 KEY M Disk	Disk size 2240
W10	CSI CAMERA0 CONNECT	CSI-2
W11	USB 3.0 ZIF connect	0.5 PITCH 20 PIN
W12	SD Card	1x microSD Card Slot
W13	FAN CONNECT	PicoBlade Header
W14	M.2 KEY E	PCIE 2242 SIZE
W15	NVIDIA Jetson Nano/NX	Nano/NX 266 PIN Connector

HDMI (W1)

Pin	Pin Description	Pin	Pin Description
1	TMDS Data2+	2	TMDS Data2 GND
3	TMDS Data2-	4	TMDS Data1+
5	TMDS Data1 GND	6	TMDS Data1-
7	TMDS Data0+	8	TMDS Data0 GND
9	TMDS Data0-	10	TMDS Clock+
11	TMDS Clock GND	12	TMDS Clock-
13	CEC	14	NC
15	DDC clock	16	DDC data
17	DDC GND	18	+5V
19	Hot Plug Detect		

USB 3.0 (W2)

Pin	Pin Description	Pin	Pin Description
1	VBUS	2	USB 2.0 D-
3	USB 2.0 D+	4	GND
5	SSRX-	6	SSRX+
7	GND	8	SSTX-
9	SSTX+	10	VBUS
11	USB 2.0 D-	12	USB 2.0 D+
13	GND	14	SSRX-
15	SSRX+	16	GND
17	SSTX-	18	SSTX+

Ethernet (W3)

Pin	Pin Description	Pin	Pin Description
1	TP0+	2	TP0-
3	TP1+	4	TP2+
5	TP2-	6	TP1-
7	TP3+	8	TP3-

DC Power (W4)

Pin	Pin Description	Pin	Pin Description
1	电源DC正	2	GND

input: +9V ~ +19V

RTC (W5)

Pin	Pin Description	Pin	Pin Description
1	GND	2	BBAT

micro-USB (W6)

Pin	Pin Description	Pin	Pin Description
1	VBUS	2	USB 2.0 D-
3	USB 2.0 D+	4	USB ID
5	GND		

LED

Power on successfully, LED red.

14PIN (W7)

Pin	Pin Description	Pin	Pin Description
1	SYS_RST	8	LATCH_SET
2	GND	9	GND
3	RECOVERY	10	UART2_RXD
4	GND	11	CAN_L
5	PWR_BTN-	12	GND
6	GND	13	CAN_H
7	LATCH_SET_BUT	14	GND

Note:

“RESET”和“RECOVERY”button could connect from here

‘CAN’ could not work when Nano is using

40PIN (W8)

Pin	Pin Description	Pin	Pin Description
1	3.3V	2	5V
3	I2C1_SDA	4	5V
5	I2C1_SCL	6	GND
7	GPIO9_(3.3V_LEVEL)	8	UART1_TXD_3.3V
9	GND	10	UART1_RXD_3.3V
11	UART1_RTS_3.3V	12	I2S0_SCLK_3.3V
13	SPI1_SCLK_3.3V	14	GND
15	GPIO12_(3.3V_LEVEL)	16	SPI1_CS1_3.3V
17	3.3V	18	SPI1_CS0_3.3V
19	SPI0_MOSI_3.3V	20	GND
21	SPI0_MISO_3.3V	22	SPI1_MISO_3.3V
23	SPI0_SCK_3.3V	24	SPI0_CS0_3.3V
25	GND	26	SPI0_CS1_3.3V
27	ID_I2C_SDA_3.3V	28	ID_I2C_SCL
29	GPIO1_(3.3V_LEVEL)	30	GND
31	GPIO11_(3.3V_LEVEL)	32	GPIO7_(3.3V_LEVEL)

Pin	Pin Description	Pin	Pin Description
33	GPIO13_(3.3V_LEVEL)	34	GND
35	I2S0_LRCK_3.3V	36	UART1_CTS_3.3V
37	SPI1_MOSI_3.3V	38	I2S0_SDIN_3.3V
39	GND	40	I2S0_SDOOUT_3.3V

M.2 KEY M (W9)

Pin	Pin Description	Pin	Pin Description
1	GND	2	3.3V
3	GND	4	3.3V
5	PCIE0_RX3_N	6	NC
7	PCIE0_RX3_P	8	NC
9	GND	10	NC
11	PCIE0_TX3_N	12	3.3V
13	PCIE0_TX3_P	14	3.3V
15	GND	16	3.3V
17	PCIE0_RX2_N	18	3.3V
19	PCIE0_RX2_P	20	NC
21	GND	22	NC
23	PCIE0_TX2_N	24	NC
25	PCIE0_TX2_P	26	NC
27	GND	28	NC
29	PCIE0_RX1_N	30	NC
31	PCIE0_RX1_P	32	NC
33	GND	34	NC
35	PCIE0_TX1_N	36	NC
37	PCIE0_TX1_P	38	NC
39	GND	40	I2C2_CLK
41	PCIE0_RX0_N	42	I2C2_DAT
43	PCIE0_RX0_P	44	M2_KEYM_ALERT
45	GND	46	NC
47	PCIE0_TX0_N	48	NC
49	PCIE0_TX0_P	50	PCIE0_RST_N

Pin	Pin Description	Pin	Pin Description
51	GND	52	PCIE0_CLKREQ_N
53	PCIE0_CLK_N	54	M2_KEYM_PEWAKE
55	PCIE0_CLK_P	56	NC
57	GND	58	NC
59	NC	60	32.768KHz
61	NC	62	3.3V
63	GND	64	3.3V
65	GND	66	3.3V
67	GND		

CSI Camera (W10)

Pin	Pin Description	Pin	Pin Description
1	GND	2	CSI_A_D0_N
3	CSI_A_D0_P	4	GND
5	CSI_A_1_N	6	CSI_A_D1_P
7	GND	8	CSI_A_CLK_P
9	CSI_A_CLK_N	10	GND
11	CAM1_PWDN	12	CAM1_MCLK
13	CAM_I2C_SCL	14	CAM_I2C_SDA
15	+3.3V		

20PIN(USB 3.0 ZIF) (W11)

Pin	Pin Description	Pin	Pin Description
1	5V	11	USB3.0_SSTX_N
2	5V	12	USB3.0_SSTX_P
3	5V	13	GND
4	5V	14	USB3.0_SSRX_N
5	5V	15	USB3.0_SSRX_P
6	GND	16	GND
7	USB2.0_DN	17	GND
8	USB2.0_DP	18	GND
9	GPIO_01	19	GND

Pin	Pin Description	Pin	Pin Description
10	GND	20	GND

Micro SD (W12)

Pin	Pin Description	Pin	Pin Description
1	SDIO_DATA2	2	SDIO_DATA3
3	SDIO_CMD	4	SDIO_VCC
5	SDIO_CLK	6	GND
7	SDIO_DATA0	8	SDIO_DATA1
9	GND	10	SD_DET

FAN (W13)

Pin	Pin Description	Pin	Pin Description
1	GND	2	+5V
3	FAN_TACH	4	FAN_PWM

Note: No PWM supported.

M.2 KEY E (W14)

Pin	Pin Description	Pin	Pin Description
1	GND	2	3V3
3	USB1_DP	4	3V3
5	USB1_DN	6	NC
7	GND	8	I2S1_SCLK
9	NC	10	I2S1_LRCK
11	NC	12	I2S1_SDIN
13	NC	14	I2S1_DOUT
15	NC	16	NC
17	NC	18	GND
19	NC	20	BT_M2_WAKE
21	NC	22	UART0_RXD
23	NC	24	UART0_TXD
25	GND	26	UART0_CTS

27	PCIE1_TX0_P	28	UART0_RTS
29	PCIE1_TX0_N	30	NC
31	GND	32	NC
33	PCIE1_RX0_P	34	NC
35	PCIE1_RX0_N	36	NC
37	GND	38	NC
39	PCIE1_CLK_P	40	NC
41	PCIE1_CLK_N	42	CLK_32K
43	GND	44	PCIE1_RST
45	PCIE1_CLKR EQ	46	W_DISABLE2
47	PCIE1_WAKE	48	W_DISABLE1
49	GND	50	I2C2_SDA
51	NC	52	I2C2_SCL
53	NC	54	M2_E_ALERT
55	GND	56	NC
57	NC	58	NC
59	NC	60	NC
61	GND	62	NC
63	NC	64	3V3
65	NC	66	3V3
67	GND		

Note: M.2 KEY E cannot be used when using

