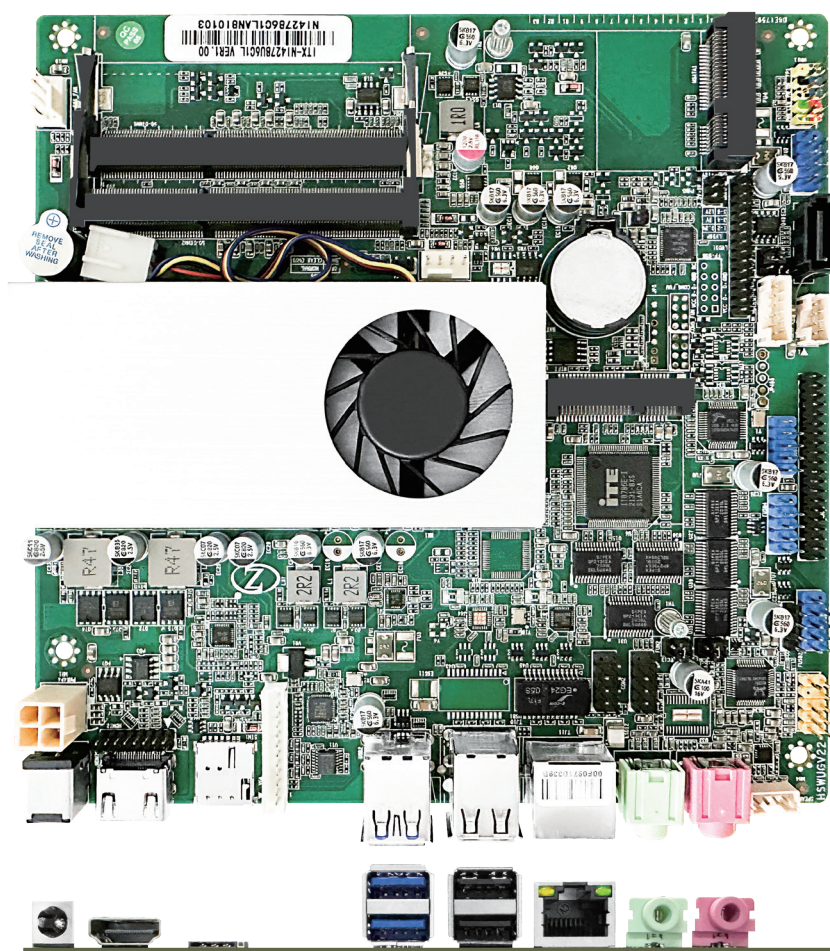


ITX-NI4278U6C1L主板

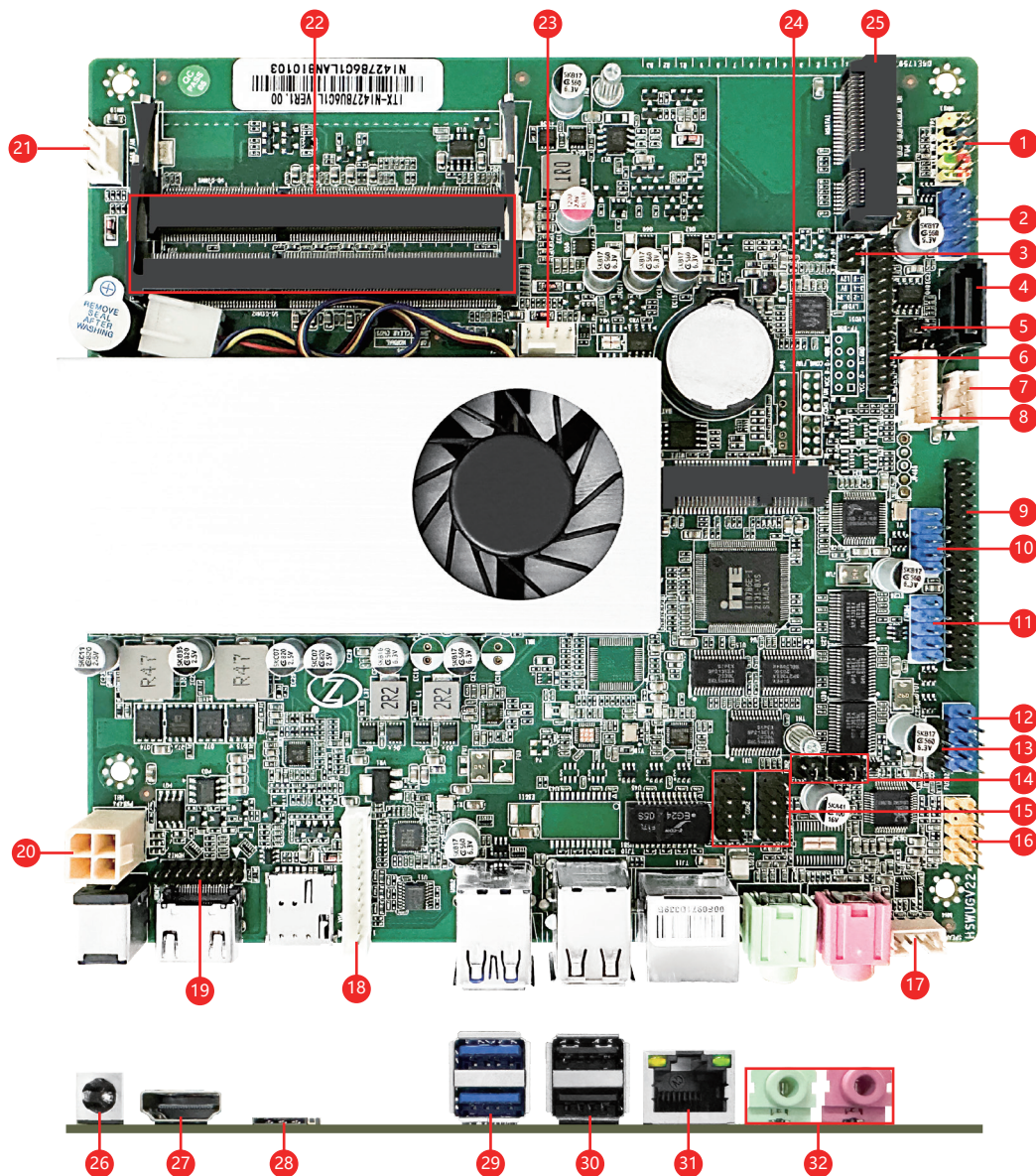
产品特性:

- 第四代智能英特尔® 酷睿™ i5 处理器
- 支持13个USB(2*USB3.0接口/
2*USB2.0接口/9*USB2.0排针)
- 支持1个LAN口(Realtek 8111H 1Gbps/
100Mbps/10Mbps以太网控制器)



ITX-NI4278U6C1L主板规格

板型尺寸	170mm*170mm
处理器	第四代智能英特尔® 酷睿™ i5 处理器
内存	支持2个DDR3 1600Mhz，最大支持16GB
BIOS	AMIBIOS 64Mbit 闪存
内置I/O接口	1*Front panel排针 5*FUSB1/2/3/4/5排针（支持9个USB2.0接口） 1*GPIO排针 1*SATA数据接口 1*LVDSP跳线 1*LVDS排针 1*JSATA供电接口 1*INVERT1排针 1*COM36排针 2*FUN1/2跳线 2*COM1/2排针 1*CFPA排针 1*SPK排针 1*VGA排针 1*HDMI2排针 1*4Pin电源插座 1*SYS_FAN排针 1*CPU_FAN排针
外置I/O接口	1*DC 12V接口 1*HDMI接口 1*SIM卡槽 2*USB3.0接口 2*USB2.0接口 1*LAN口 2*AUDIO接口（1*LINE OUT、1*MIC）
集成网卡	1*Realtek 8111H 1Gbps/100Mbps/10Mbps以太网控制器
扩展槽/口	1*MINI PCIE插槽(MSATA) / 1*MINI PCIE插槽(WIFI)
操作系统	Windows10/11，Linux



1	Front panel排针
2	FUSB1排针
3	GPIO排针
4	SATA数据接口
5	LVDS跳线
6	LVDS排针
7	JSATA供电接口
8	INVERT1排针
9	COM36排针
10	FUSB3排针
11	FUSB4排针
12	FUSB5排针
13	FUSB2排针
14	FUN1/2跳线
15	COM1/2排针
16	CFPA排针
17	SPK排针
18	VGA排针
19	HDMI2排针
20	4Pin电源插座
21	SYS_FAN排针
22	DDR3内存槽
23	CPU_FAN排针
24	MINI PCIE插槽(WIFI)

25	MINI PCIE插槽(MSATA)	29	USB3.0接口
26	DC 12V接口	30	USB2.0接口
27	HDMI接口	31	LAN口
28	SIM卡槽	32	AUDIO接口 (1*LINE OUT、1*MIC)

ITX-NI4278U6C1L主板定义

(1) Front panel排针

Location	Pin	Definition	Pin	Definition
FP1 (2.54mm)	1	Hard Disk Drive LED+	2	Power LED
	3	Hard Disk Drive LED-	4	GND
	5	Reset Switch	6	Power Switch
	7	GND	8	GND
	9	NC		

(2/10/11/12/13) FUSB1/2/3/4/5排针

Location	Pin	Definition	Pin	Definition
FUSB1 (2.54mm)	1	5V_RUN	2	5V_RUN
	3	USB_PN4	4	USB_PN5
	5	USB_PP4	6	USB_PP5
	7	GND	8	GND
	9	NC	10	GND

Location	Pin	Definition
FUSB2 (2.54mm)	1	5V_RUN
	2	FDM7
	3	FDP7
	4	GND

Location	Pin	Definition	Pin	Definition
FUSB3 (2.54mm)	1	5V_RUN	2	5V_RUN
	3	FDM1	4	FDM2
	5	FDP1	6	FDP2
	7	GND	8	GND
	9	NC	10	GND

Location	Pin	Definition	Pin	Definition
FUSB4 (2.54mm)	1	5V_RUN	2	5V_RUN
	3	FDM3	4	FDM4
	5	FDP3	6	FDP4
	7	GND	8	GND
	9	NC	10	GND

Location	Pin	Definition	Pin	Definition
FUSB5 (2.54mm)	1	5V_RUN	2	5V_RUN
	3	FDM5	4	FDM6
	5	FDP5	6	FDP6
	7	GND	8	GND
	9	NC	10	GND

(3) GPIO排针

Location	Pin	Definition	Pin	Definition
GPIO (2mm)	1	+V5S	2	GND
	3	GP56	4	GP57
	5	GP60	6	GP61

(5) LVDS排针

LVDS	
1-2	3.3V
3-4	5V
5-6	12V

(6) LVDS排针

Location	Pin	Definition	Pin	Definition
LVDS (2mm)	1	VDDLVD	2	VDDLVD
	3	VDDLVD	4	GND
	5	GND	6	LVDS_DP
	7	LVDS_DATA_0N	8	LVDS_DATA_0P
	9	LVDS_DATA_1N	10	LVDS_DATA_1P
	11	LVDS_DATA_2N	12	LVDS_DATA_2P
	13	GND	14	GND
	15	LVDS_CLKN	16	LVDS_CLKP
	17	LVDS_DATA_3N	18	LVDS_DATA_3P
	19	LVDS1_DATA_0N	20	LVDS1_DATA_0P
	21	LVDS1_DATA_1N	22	LVDS1_DATA_1P
	23	LVDS1_DATA_2N	24	LVDS1_DATA_2P
	25	GND	26	GND
	27	LVDS1_CLKN	28	LVDS1_CLKP
	29	LVDS1_DATA_3N	30	LVDS1_DATA_3P

(8) INVERT排针

Location	Pin	Definition
INVERT	1	GND
	2	GND
	3	BL_ADJ
	4	BKLT-EN
	5	+12V
	6	+12V

(9) COM36排针

Location	Pin	Definition	Pin	Definition
COM36 (2mm)	1	3DCD	2	3SIN
	3	3SOUT	4	3DTR
	5	GND	6	3DSR
	7	3RTS	8	3CTS
	9	3RI	10	NC
	11	4DCD	12	4SIN
	13	4SOUT	14	4DTR
	15	GND	16	4DSR
	17	4RTS	18	4CTS
	19	4RI	20	NC
	21	5DCD	22	5SIN
	23	5SOUT	24	5DTR
	25	GND	26	5DSR
	27	5RTS	28	5CTS
	29	5RI	30	NC
	31	6DCD	32	6SIN
	33	6SOUT	34	6DTR
	35	GND	36	6DSR
	37	6RTS	38	6CTS
	39	6RI	40	NC

(14) FUN1/2跳线

Location	Pin	Definition	Pin	Definition
FUN1	1	2RI	2	2RI-
	3	2RI	4	+V5S
	5	2RI	6	+12V

Location	Pin	Definition	Pin	Definition
FUN2	1	1RI	2	1RI-
	3	1RI	4	+V5S
	5	1RI	6	+12V

(15) COM1/2排针

Location	Pin	Definition	Pin	Definition
COM1 (2.54mm)	1	NDCDA	2	NSINA
	3	NSOUTA	4	NDTRA
	5	GND	6	NDSRA
	7	NRTSA	8	NCTSA
	9	NR1A		

Location	Pin	Definition	Pin	Definition
COM2 (2.54mm)	1	2DCD	2	2SIN
	3	2SOUT	4	2DTR
	5	GND	6	2DSR
	7	2RTS	8	2CTS
	9	2RI		

(17) SPK排针

Location	Pin	Definition
SPK1	1	SPKOUT_L-
	2	SPKOUT_L+
	3	SPKOUT_R-
	4	SPKOUT_R+

(19) HDMI排针

Location	Pin	Definition	Pin	Definition
HDMI2 (2mm)	1	DDI1_TXP0	2	HDMIC_SCL
	3	DDI1_TXN0	4	HDMIC_SDA
	5	DDI1_TXP1	6	NC
	7	DDI1_TXN1	8	HDMIC_HPD_SINK
	9	DDI1_TXP2	10	DDC_5V
	11	DDI1_TXN2	12	GND
	13	DDI1_TXP3	14	GND
	15	DDI1_TXN3	16	GND

(21) SYS_FAN排针

Location	Pin	Definition
SYS_FAN	1	GND
	2	+12V
	3	FAN_TAC22
	4	FAN_CTL22

(23) CPU_FAN排针

Location	Pin	Definition
CPU_FAN1	1	GND
	2	+12V
	3	FAN_TAC
	4	FAN_CTL