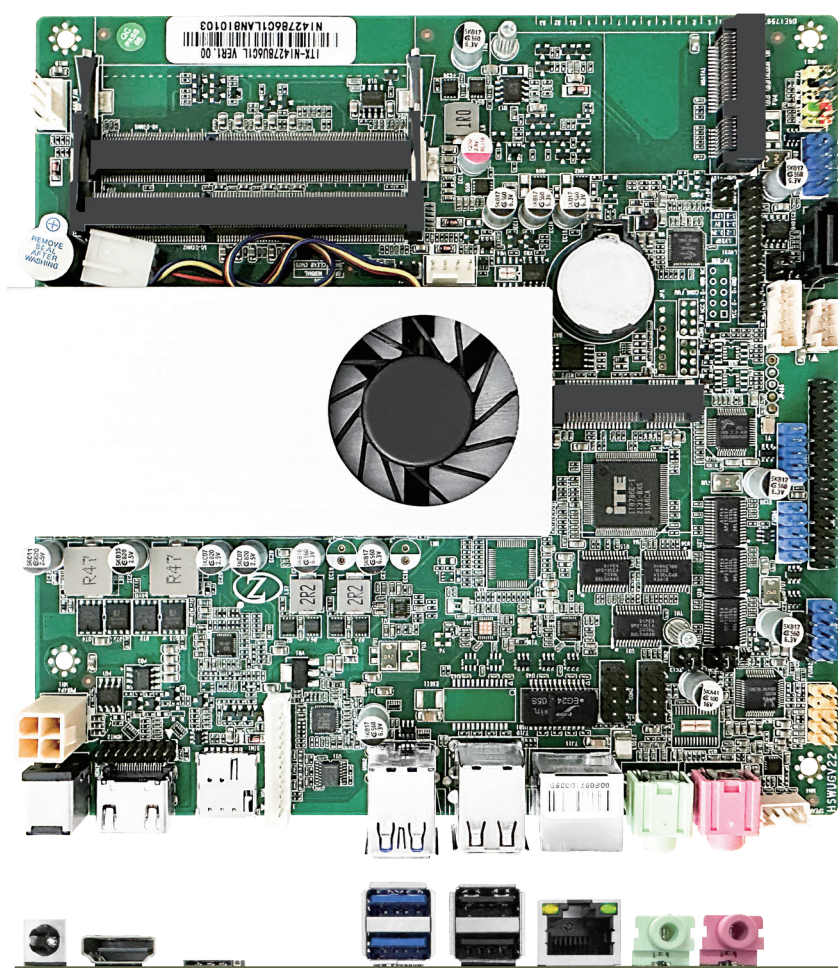


ITX-NI4278U6C1L Motherboard

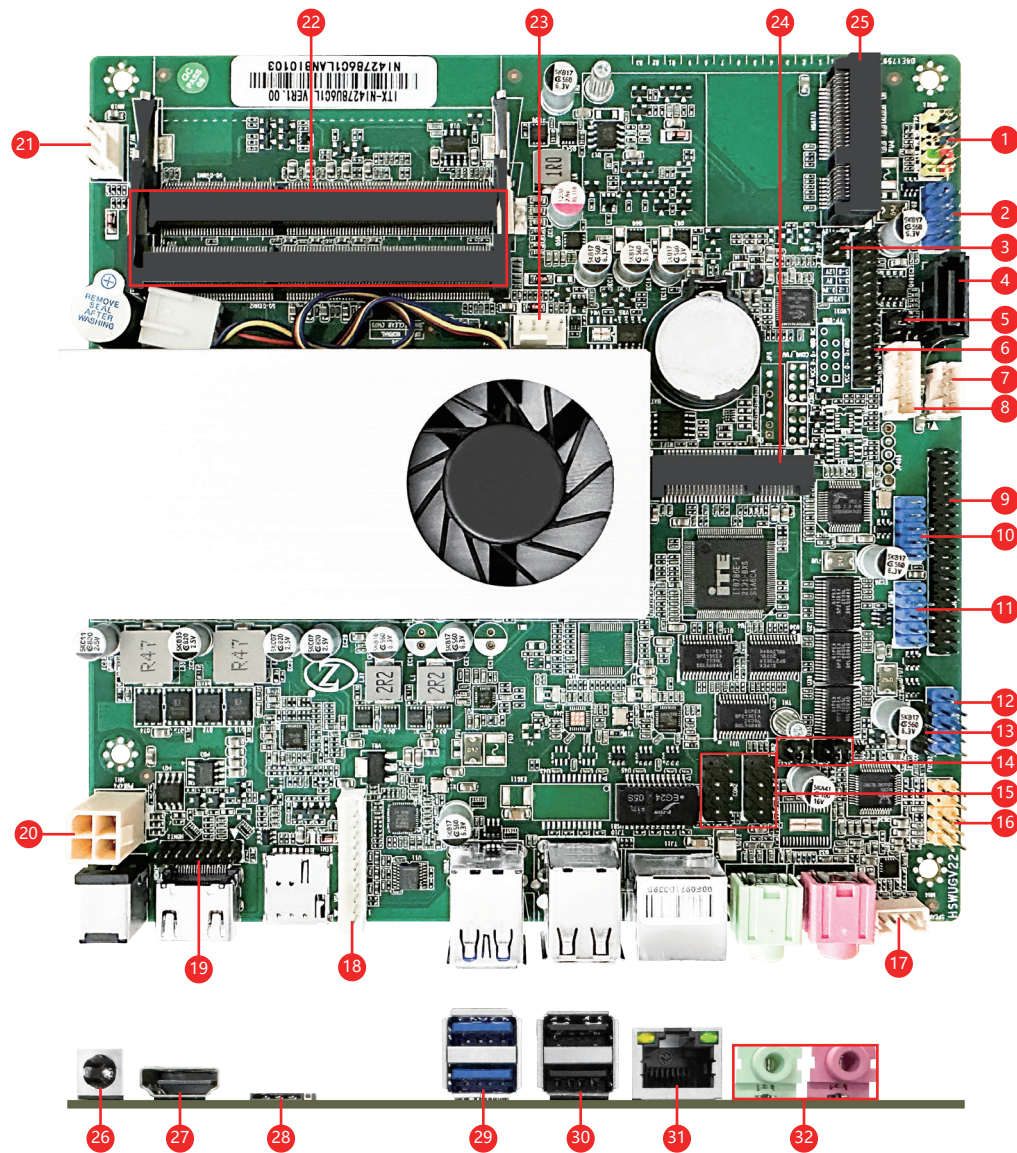
Product characteristics:

- Fourth Generation Intelligent Intel®Core™ i5 CPU
- Support 13*USB(2*USB3.0 interface/ 2*USB2.0 interface/9*USB2.0 Pin)
- Support 1*LAN(Realtek 8111H 1Gbps/ 100Mbps/10Mbps Ethernet Controller)



ITX-NI4278U6C1L Motherboard Specifications

Size	170mm*170mm
CPU	Fourth Generation Intelligent Intel®Core™ i5 CPU
RAM	Support 2*DDR3 1600Mhz, Maximum support 16GB
BIOS	AMIBIOS 64Mbit Flash
Internal I/O	1*Front panel Pin 5*FUSB1/2/3/4/5 Pin(Support 9*USB2.0 interface) 1*GPIO Pin 1*SATA Data interface 1*LVDS Jumper 1*LVDS Pin 1*JSATA Power supply interface 1*INVERT1 Pin 1*COM36 Pin 2*FUN1/2 Jumper 2*COM1/2 Pin 1*CFPA Pin 1*SPK Pin 1*VGA Pin 1*HDMI2 Pin 1*4Pin Power outlet 1*SYS_FAN Pin 1*CPU_FAN Pin
Rear I/O	1*DC 12V interface 1*HDMI interface 1*SIM Card slots 2*USB3.0 interface 2*USB2.0 interface 1*LAN interface 2*AUDIO interface (1*LINE OUT、1*MIC)
LAN	1*Realtek 8111H 1Gbps/100Mbps/10Mbps Ethernet Controller
Expansion slot	1*MINI PCIE(MSATA)slot / 1*MINI PCIE(WIFI)slot
Operating System	Windows10/11, Linux



1	Front panel Pin
2	FUSB1 Pin
3	GPIO Pin
4	SATA Data interface
5	LVDS Jumper
6	LVDS Pin
7	JSATA Power supply interface
8	INVERT1 Pin
9	COM36 Pin
10	FUSB3 Pin
11	FUSB4 Pin
12	FUSB5 Pin
13	FUSB2 Pin
14	FUN1/2 Jumper
15	COM1/2 Pin
16	CFPA Pin
17	SPK Pin
18	VGA Pin
19	HDMI2 Pin
20	4Pin Power outlet
21	SYS_FAN Pin
22	DDR3 Memory slots
23	CPU_FAN Pin
24	MINI PCIE slot(WIFI)

25	MINI PCIE slot(MSATA)	29	USB3.0 interface
26	DC 12V interface	30	USB2.0 interface
27	HDMI interface	31	LAN interface
28	SIM Card slots	32	AUDIO interface (1*LINE OUT、1*MIC)

ITX-NI4278U6C1L Mainboard Definition

(1) Front panel Pin

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 Pin

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 Pin

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

(5) LVDSP Pin

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

(6) LVDS Pin

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 Pin

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

(9) COM36 Pin

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 Jumper

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 Pin

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 Pin

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

(21) SYS_FAN Pin

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

(23) CPU_FAN Pin

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

(19) HDMI Pin

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