

KINO-BTL-H611

Mini-ITX Single Board Computer

Quick Installation Guide

Version 1.00

July, 2026

Features

- mini-ITX SBC supports 12th/13th/14th Gen Intel® Core™ processors (Alder Lake-S / Raptor Lake-S) and Intel® Core™ Processors (Series 2) (Bartlett Lake-S).
- 2 x 262-pin DDR5 5600 MHz SO-DIMM, dual-channel, supports up to 96GB.
- Triple independent display via HDMI™ and DP.
- Support qual Intel® I226V 2.5GbE controller.
- Support PCIe Gen4 x16, M.2 M key and M.2 A key expansion.

Packing List

- 1 x KINO-BTL-H611 single board computer
- 2 x SATA cable
- 1 x I/O shielding
- 1 x QIG (Quick Installation Guide)

Jumpers & Connectors

J_ATX_AT1: AT/ATX power mode setting jumper	
Status	Description
(A – B)	AT Power Mode (default)
(B – C)	ATX Power Mode

J_CMOS1: Clear CMOS button	
Status	Description
NC	Keep CMOS setup (normal operation)
Press	Clear CMOS setup

ATX1: ATX Power Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	+3.3V	13	+3.3V
2	+3.3V	14	-12V
3	GND	15	GND
4	+5V	16	PS_ON
5	GND	17	GND
6	+5V	18	GND
7	GND	19	GND
8	Power good	20	-5V
9	5VSB	21	+5V
10	+12V	22	+5V
11	+12V	23	+5V
12	+3.3V	24	GND

CPU12V1: +12V Power Connector	
PIN NO.	Description
1	GND
2	GND
3	GND
4	GND
5	+12V
6	+12V
7	+12V
8	+12V

USB_CN3: External USB2.0 Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	VCC_USB3_56	5	VCC_USB3_56
2	USB2_DM5_L	6	USB2_DM6_L
3	USB2_DM5_L	7	USB2_DP6_L
4	GND	8	GND

CPU_FAN1: CPU Fan Connector	
PIN NO.	DESCRIPTION
1	GND
2	+12V
3	FANIO0_EC
4	PWM

SYS_FAN1: System Fan Connector	
PIN NO.	DESCRIPTION
1	GND
2	+12V
3	FANIO1_EC
4	PWM

LED_LAN3/JP2/JP3/JP4	
PIN NO.	DESCRIPTION
1	+V3P3_LAN
2	LAN_LED_LINK_ACT

F_PANEL1: F_PANEL1 Connector	
PIN NO.	DESCRIPTION
1	PWRBTN_N
2	GND
3	EXTRST-
4	GND
5	+V5S
6	GND
7	+V5S
8	SATA_LED#
9	BEEP_PWR
10	PC_BEEP_N

JSPI1: Flash SPI ROM Connector	
PIN NO.	DESCRIPTION
1	+3.3V
2	SPI_CS#0_SW
3	SPI_SO_SW
4	SPI_CLK_SW
5	SPI_SI_SW
6	GND

I2C_1: I2C Connector	
PIN NO.	DESCRIPTION
1	GND
2	SMDAT2_EC
3	SMCLK2_EC
4	+5V

EC_FLASH1: Flash the EC ROM Connector	
PIN NO.	DESCRIPTION
1	GND
2	EC_FLASH_DAT
3	EC_FLASH_CLK
4	NC

CHASSIS1: Chassis Status Connector	
PIN NO.	DESCRIPTION
1	CASEOPEN_N
2	GND

DIO: DIO Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	2	+V5S
3	DOUT5	4	DOUT4
5	DOUT3	6	DOUT2
7	DOUT1	8	DOUT0
9	DIN5	10	DIN4
11	DIN3	12	DIN2
13	DIN1	14	DIN0

TPM1: TPM Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1		2	SPI_CS0_N_TPM
3	+V3P3A_TPM	4	SPI_CS1_N_TPM
5	GND	6	+V3P3A_TPM
7	SPI_CLK_SF	8	SPI_DQ2_TPM
9	SPI_DQ3_SF	10	SPI_MISO_TPM
11	SPI_HOLD_TPM_N	12	SPI_MISI_TPM
13	SPI_CS2_TPM	14	GND
15	SPI_WP_TPM_N	16	SERIRQ_TPM_R
17	SPI_TPM_PIRQ_LT_R	18	+V3P3A_TPM
19	PLTRST_SPI_TPM	20	+V3P3A_TPM

FRONT_AUDIO1: Front audio Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	22	LINEOUT1L
2	FMICL1	23	OUT1-JD
3	MIC1-JD	24	GND
4	GND	25	LINEOUT1R
5	FMIC1R		

FRONT-PANEL1: FRONT_PANEL Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	LMIC2-L	2	GND
3	LMIC2-R	4	V3.3S
5	LLINE2-R	6	GND
7	FRONT-IO	8	NC
9	LINE2-L	10	GND

Get more information:

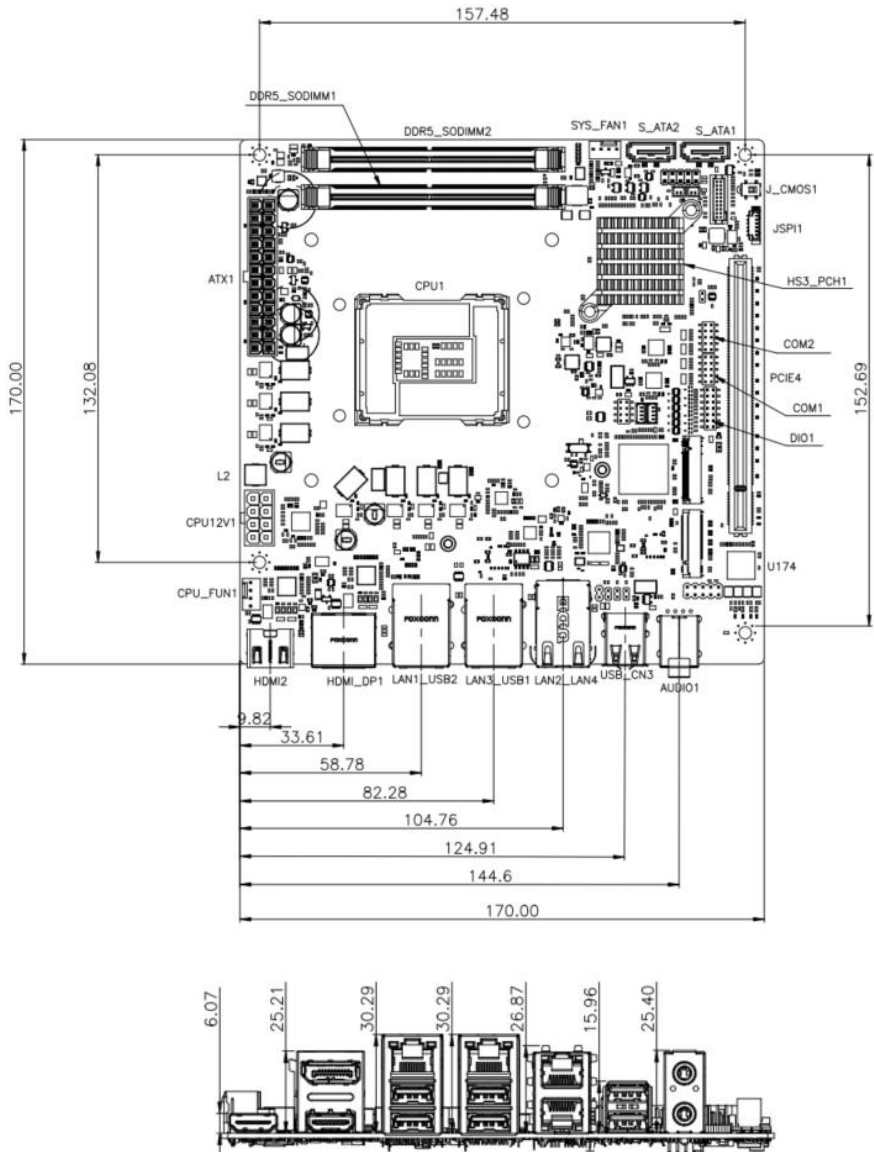


KINO-BTL-H611



IEI Resource Download Center

Dimensions (Unit: mm)



Safety Instructions



Warning! Read the user manual before connecting the system to the power source.

Warning! To prevent the system from overheating, do not operate it in an area that exceeds the maximum operating temperature described in the user manual.

Warning! Ultimate disposal of this product should be handled according to all national laws and regulations.

Support



IEI Support URL

http://new.ieiworld.com/tw/online_support_form

Compliance



This equipment has been tested and found to comply with specifications for CE marking. If the user modifies and/or installs other devices in the equipment, the CE conformity declaration may no longer apply.



This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



According to the requirement of the WEEE legislation, the following user information is provided to customers for all branded IEI Electronics products subject to the WEEE directive.

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

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