威強電工業電腦 Integration Corp.

PCIE-AM5

Full-size PICMG 1.3 CPU Card supports AMD Ryzen™ 7000/ Ryzen™ 8000 Series Desktop Processors,ddr5.

Quick Installation Guide

Version 1.00 October, 2026

Features

- Full-size PICMG 1.3 CPU Card supports AMD Ryzen™ 7000 &8000G PHX1 Series CPU
- Support two 288-pin 5200 MHz Dual-channel DDR5 SO-DIMMS
- Support Dual Intel® I226V 2.5GbE controller
- Support DisplayPort 1.4, HDMI
- Flexible expansion with full-size PICMG1.3 CPU board

Packing List

- 1 x PCIE-AM5 Single board computer
- 1 x SATA cable
- 1 x QIG

Jumpers & Connectors

J_ATX_AT1: AT/ATX Power Mode Setting	
STATUS	DESCRIPTION
1-2 Right	ATX Power Mode (default)
2-3 Left	AT Power Mode

J_CMOS1: Clear CMOS Jumper	
STATUS	DESCRIPTION
NC	Keep CMOS Setup (Normal Operation)
Press button	Clear CMOS Setup

F_PANEL1: External Switches and Indicators panel			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	+5V	2	PC_BEEP_P
3	NC	4	NC
5	GND	6	NC-
7	PWR_BTN_N	8	PC_BEEP_N
9	GND	10	NC
11	HD_LED_P	12	PM_SYSRST_N
13	HD_LED_N	14	GND

DIO1: Digital Input / Output Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	2	+5V
3	DOUT5	4	DOUT4
5	DOUT3	6	DOUT2
7	DOUT1	8	DOUT0
9	DIN5	10	DIN4
11	DIN3	12	DIN2
13	DIN1	14	DIN0

SATA1/2/3/4: Serial ATA 3.0 Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	2	SATA_RXN
3	SATA_TXP	4	SATA_RXP
5	SATA_TXN	6	GND
7	GND	8	NC
9	NC		

J_AUDIO: Audio Source Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	HDA_SYNC_R	2	HDA_BCLK_R
3	HDA_SDO_R	4	HDA_PCBEEPC
5	HDA_SDI_0_R	6	HDA_RST_R
7	+5V	8	GND
9	+12V	10	GND

SMBUS1: SMBus Connector	
PIN NO.	DESCRIPTION
1	GND
2	SMB_DATA_MAIN
3	SMB_CLK_MAIN
4	+5V

SYS_FAN1: SYS Fan Connector	
PIN NO.	DESCRIPTION
1	GND
2	+12V
3	FANIN
4	PWM(+5V)

CPU_FAN1: CPU Fan Connector	
PIN NO.	DESCRIPTION
1	GND
2	+12V
3	FANIN
4	PWM(+5V)

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

BAT1: CMOS Battery Header	
PIN NO.	DESCRIPTION
1	VBAT+
2	GND

COM1/COM2: COM Port Connectors				
PIN	**RS-232**	**RS-422**	**RS-485**	
1	DCD	TXD422-	TXD485-	
2	RXD	TXD422+	TXD485+	
3	TXD	RXD422+	--	
4	DTR	RXD422-	--	
5	GND	--	--	
6	DSR	--	--	
7	RTS	--	--	
8	CTS	--	--	
9	RI	--	--	



JSP1: BIOS Connector	
PIN NO.	DESCRIPTION
1	SPI_POWER
2	SPI_F_CS_L
3	SPI_F_MISO
4	SPI_F_CLK
5	SPI_F_MOSI
6	GND

JSP2: EC Programmer Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	CS	2	VCC3.3V
3	MISO	4	HOLD
5	DET#	6	CLK
7	GND	8	MOSI

TPM1: TPM Programmer Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
		2	NC
3	TPM_GPIO	4	NC
5	GND	6	+1.8V_ALW
7	SPI_CLK_TPM_R	8	NC
9	NC	10	SPI_MISO_TPM_R
11	NC	12	SPI_MOSI_TPM_R
13	TPM_SPI_CS2_N	14	GND

15	NC	16	NC
17	TPM_IRQ#	18	+1.8V_ALW
19	TPM_R_N	20	+1.8V_ALW

HDT1: HDT Programmer Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	+1.8V_HDT	2	APU_TCK
3	GND	4	APU_TMS
5	GND	6	APU_TDI
7	GND	8	APU_TDO
9	APU_TRST#	10	APU_PWROK_
11	GND	12	APU_RST_L_
13	GND	14	APU_DBRDY
15	GND	16	HDT_DBREQ_L
17	GND	18	HDT_PLLTEST0
19	+1.8V_HDT	20	HDT_PLLTEST1

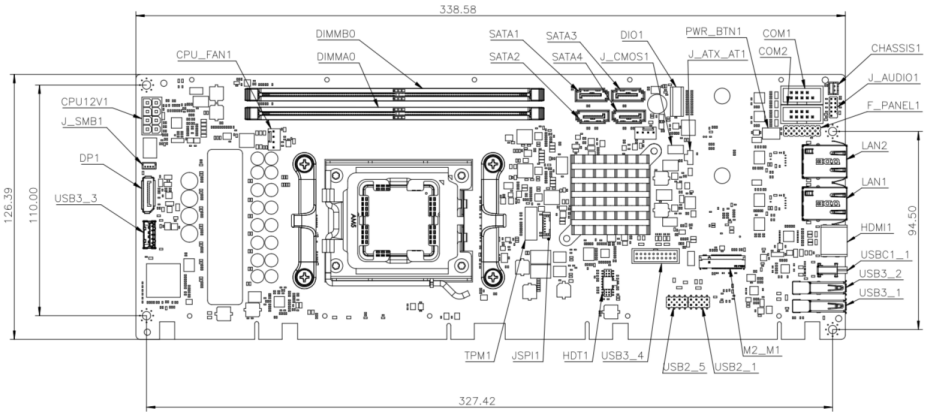
USB2_1/USB2_5: USB2.0 Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	+5V	G3	GND
2	USB_D2N	G4	USB_D2P
3	USB_D2P		USB_D2N
4	GND		+5V

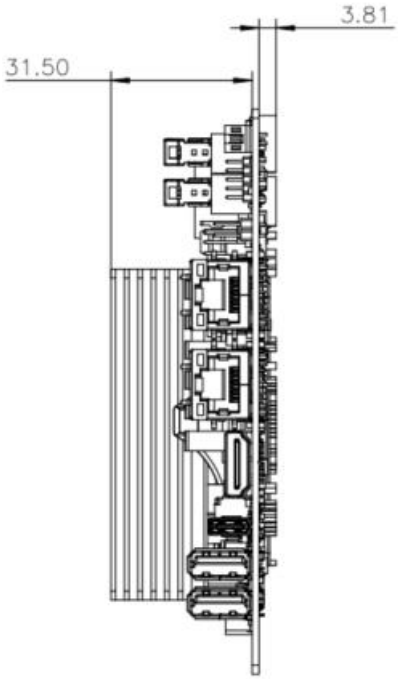
Get more information:

PCIE-AM5

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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