PIB-321+ECB-322

支持NVIDIA Jetson AGX Orin 32/64GB模组，5*LAN, 4*USB3.2, 2*USB2.0，4*COM, 3*CAN, 8-bit DIO, 1*HDMI, DC 9~36V

JHCTECH IoT Computer Connecting the Dots



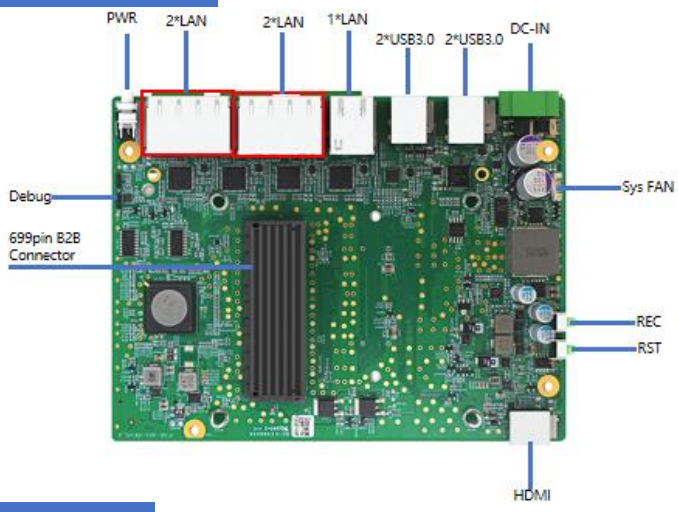
Key Features

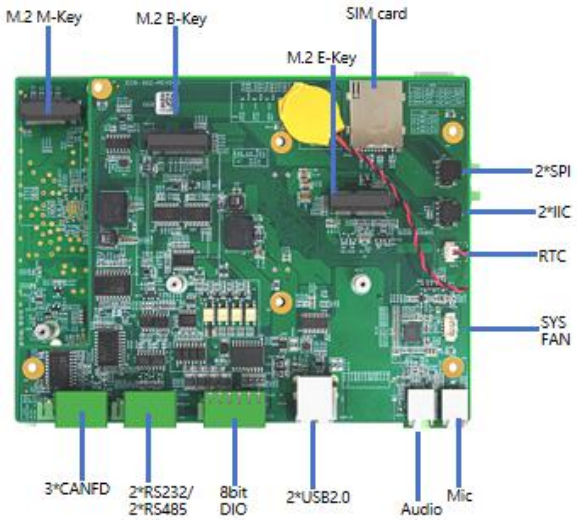
- Support 1*M.2 2280 M-Key NVMe SSD
- 1*HDMI, 1*line out，1*MIC
- 5*LAN，4*USB3.2，3*CAN-FD
- 2*RS485，2*RS232，2*USB2.0，8-bit DIO
- 1*M.2 B-Key support 4G LTE or 5G NR
- 1*M.2 E-Key support Wifi&BT wireless routes
- DC9~36V wide power input

Product Overview

PIB-321 can be equipped with the NVIDIA AGX Orin 32/64GB module, which communicates with ECB-322 through a 120-pin board-to-board connector. This development kit supports external NVMe storage, boasts abundant IO interface resources, and operates with a wide DC 9-36V power supply. It can used as a main controller for applications in industries such as humanoid robotics, smart logistics, and machine vision.

Interface Overview





Product SPEC

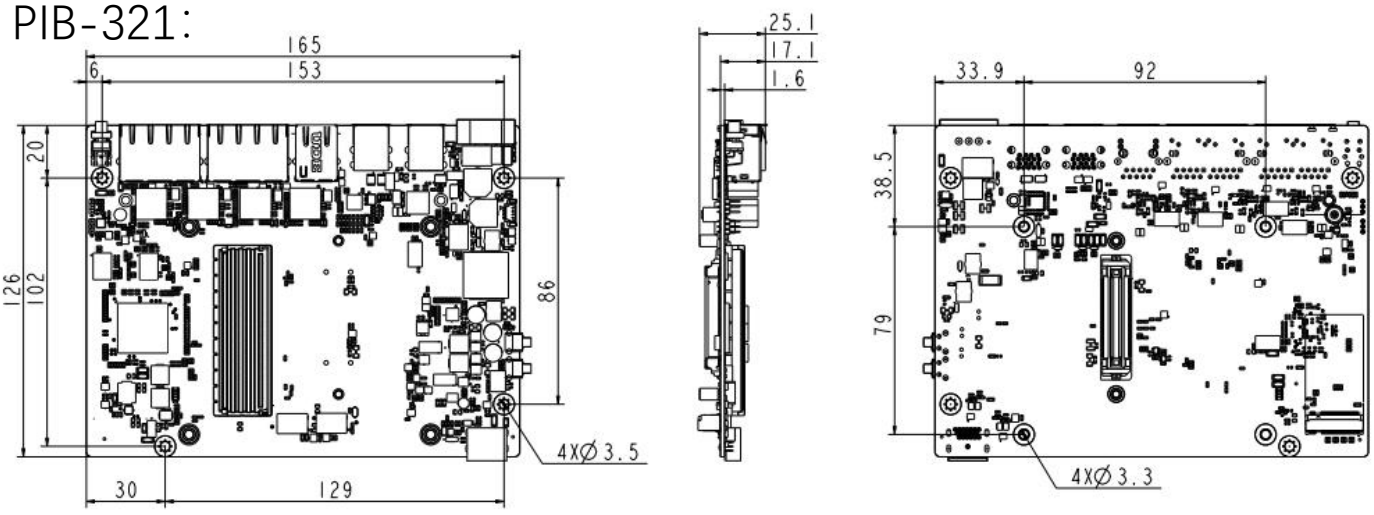
Compatible Modules	Jetson AGX Orin 32/64GB
Storge	1*M.2 Type 2280 M-Key，PCIeX4 signal, support NVMe high-speed memory card
Graphics/Audio	1*HDMI 2.0 interface, 1*line out, 1*MIC, Realtek ALC5640 audio, support stereo channel output
LAN	5*Intel I210AT PCIe Gig. Ethernet, 10/100/1000Mbps
USB	4*USB3.2(Type A)，2*USB2.0(Type A)
CAN	3* isolation CAN FD (Phoenix terminal interface)
COM	2*2.5KV Iso. RS232, 2*2.5KV Iso. RS485 (Phoenix terminal interface)
DIO	4-bit 2.5KV Iso. DI , 4-bit 2.5KV Iso. DO (Phoenix terminal interface)
Expansion	1*M.2 3042/3052 B-key, with SIM card slot, PCIe X1 + USB2.0 signal, support 4G LTE or 5G NR wireless function module; 1*M.2 2230 E-Key , PCIe X1 + USB2.0 signal, support gigabit bandwidth WiFi6/BT5.0 Reserved internal onboard signal (2*PCIeX1, 2*USB2.0, 2*I2C, 2*SPI)

LED	1*Power LED(on power button), 1*CPU temp warning LED
Control SW	1* Power button w/LED, 1*RST button, 1*REC button
Power Supply	DC 9~36V wide power input, 3-pin 3.81mm terminal block，with short circuit, over voltage and over current protection
OS Support	Linux Ubuntu 22.04 with JetPack6.2
Dimension	(L*W*H)：165*126*25mm【PIB-321】；165*126*17mm【ECB-322】
Operating temperature	-20℃～60℃, airflow
Storage Temperature	-40°C~85°C
Storage Humidity	10~90%@40°C, Non-condensing
Certification/EMC	CE/FCC Class A

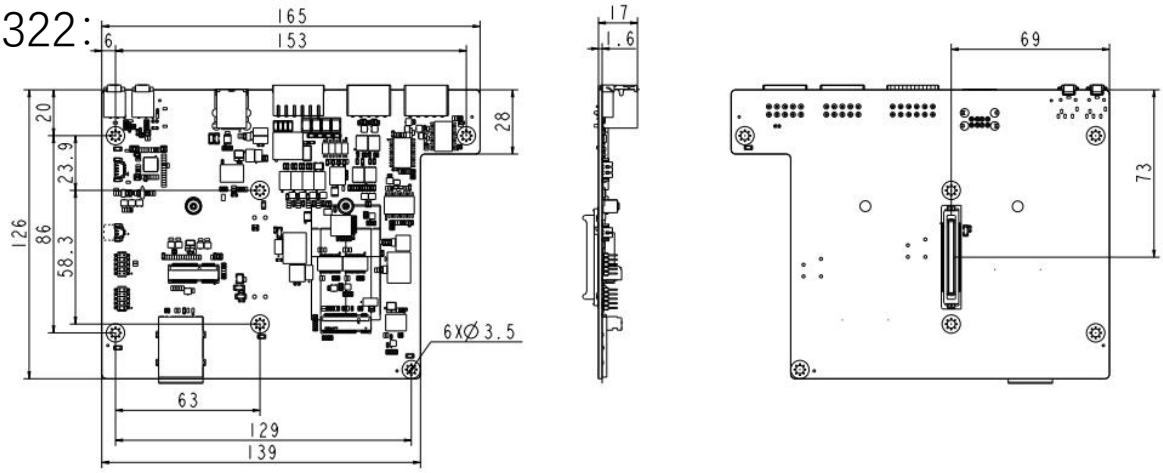
Dimension

单位：mm

PIB-321:



ECB-322:



Ordering Info

Model No.		Introduction
PIB-321	699pin connector wirh Jetson AGX Orin 32/64GB module	1*HDMI, 5*RJ45, 4*USB3.2, 2*USB2.0, 2*RS485, 2*RS232, 3*Iso. CAN, 8-bit Iso. DIO, 1*Line out, 1*MIC，1*M.2 B-Key w/SIM,1*M.2 E-key, 1*M.2 M-Key, DC-IN 9~36V
ECB-322	120pin BTB connector with PIB-321	
Radiator Assembly	Standard configuration, radiator assembly with fan, installation dimensions as shown in the PIB-321 dimensional drawing	
PA-120DC19	AC/DC power adapter，DC19V/6.32A,120W	