

PAS-6102

Based on NVIDIA Jetson AGX Orin

JWIPC PAS-6102 is a high-performance AI edge computing device based on the NVIDIA Jetson AGX Orin module, offering a powerful computing capability of up to 275 TOPS. It features a 2.5GbE Ethernet port, multiple serial ports, USB ports, an Ethernet port, and a GMSL high-definition camera interface. These specifications ensure stable connections and smooth data transmission across multiple devices. With its impressive functionality and adaptability, the PAS-6102 is widely applicable in various AI edge computing scenarios, including robotics, machine vision, intelligent industrial processes, and smart healthcare.



- NVIDIA Jetson AGX Orin 32/64G module, AI power: 200/275 TOPS.
- 8/12-core ARM Cortex-A78AE, 2.2GHz.
- 1 M.2 NVME SSD storage expansion, 1 TF slot, 1 64G eMMC storage.
- I226IT2.5GbE dual Ethernet ports, M.2 expansion for WiFi+BT, 4G/5G.
- 1 USB3.2, 1 USB2.0, Phoenix connectors: RS232+485+CAN.
- Supports TPM/TCM encryption module, GPS module.
- Aluminum housing, combined active/passive cooling, industrial-grade.
- DC 9~36V wide voltage input, overcurrent and overvoltage protection.
- 3 configurations available for different applications (requires different expansion cards)

Specifications

ORIN Module	Jetson AGX Orin 32GB	Jetson AGX Orin 64GB
CPU	8 Cores A78AE 2.2GHz 2MB L2 + 4MB L3	12 Cores A78AE 2.2GHz 3MB L2 + 6MB L3
GPU	Ampere,1792 CUDA Cores,56 Tensor Cores,930Mhz	Ampere,2048 CUDA Cores,64 Tensor Cores,1.3GHz
AI Power	200TOPS@INT8	275TOPS@INT8
RAM	LPDDR5 32GB	LPDDR5 64GB
TDP	15~45W	15~60W
Storage	64GB eMMC 1 x M.2 2280 NVME SSD (PCIE x4) 1 x TF Slot	
Wired Ethernet	1 x RJ45 (I226IT, max speed up to 2.5GbE) 1 x RJ45 (10/100/1000Mbps)	
Wireless Ethernet	1 x M.2 Key-B for 4G/5G module 1 x M.2 Key-E for WIFI/BT module, WIFI5/WIFI6 is optional	
Display	1 x HDMI 2.1, up to 8k@60Hz	
Audio	1 x 3.5mm Combo Jack	
USB	IO: 2 x USB3.2 Type-A, 2 x USB2.0 Type-A	
COM	IO: 1 x 12pin Phoenix terminal optocoupler isolation 2* RS232+485+CAN	
GPS	Onboard GPS Module (Reserved)	
TPM/TCM	Onboard TCM Module (Z32H330TC), supports TPM	
Expansion Slots	1 x SIM Slot 2 x JLED Pin 1 x JPWR_ON 2 x CPU FAN Pin 1 x Recovery Key 1 x 16bit GPIO (Expansion Card) 2 x RJ45 Support EtherCAT (Expansion Card) 4 x GMSL Camera Ports (Expansion Card)	
MCU Watchdog	255-level programmable seconds/minutes, support timeout interrupt or system reset	
Power Supply	DC 9~36V wide voltage input, overcurrent and overvoltage protection	
Dimensions	225mm(L)*160mm(V)*70mm(H)	
OS	Ubuntu20.04	
Operating Conditions	-20°C~60°C, 10%~95% non-condensing	
Storage Conditions	-40°C~80°C, 5%~95% non-condensing	

02 Product view



04 Order Information

Model	Configuration
PAS-6102A	Jetson AGX Orin 32GB, 2* RJ45, 1* HDMI, 2* RS232+485+CAN, 2* USB3.2, 2* USB2.0, 1* TF, 1* SIM, 2* I2261T RJ45, 4* GMSL, 16GPIO, Power Supply, Accessories Kits
PAS-6102B	Jetson AGX Orin 64GB, 2* RJ45, 1* HDMI, 2* RS232+485+CAN, 2* USB3.2, 2* USB2.0, 1* TF, 1* SIM, 2* I2261T RJ45, 4* GMSL, 16GPIO, Power Supply, Accessories Kits