

PAS-6101

Based on NVIDIA Jetson AGX Orin

JWIPC PAS-6101 is a high-performance AI edge computing device that is based on the NVIDIA Jetson AGX Orin module, delivering an impressive computational power of up to 275 TOPS. It is equipped with a 2.5GbE Ethernet port, multiple serial ports, USB, and Ethernet interfaces to ensure stable connections and seamless data transmission across multiple devices. With its robust features and adaptability, it finds extensive applications in various AI edge computing scenarios such as smart cities, intelligent transportation, community management, retail innovation, industrial automation, and healthcare advancements.



- 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-Core A78AE 2.2GHz 2MB L2 + 4MB L3	12-Core 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) 1 x SATA support 2.5" SSD/HDD (Expansion Card) 4 x RJ45 PoE (Expansion Card)	
MCU Watchdog	255-level programmable seconds/minutes, support timeout interrupt or system reset	
Power Supply	IO: 9~36V DC IN, Wide voltage input with 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	

Product view



Order Information

Model	Configuration
PAS-6101A	Jetson AGX Orin 32GB, 2* RJ45, 1* HDMI, 2* RS232+485+CAN, 2* USB3.2, 2* USB2.0, 1* TF, 1* SIM, 4*1226IT PoE, 1* 2.5"SATA, 16GPIO, Power Supply, Accessories Kits
PAS-6101B	Jetson AGX Orin 64GB, 2* RJ45, 1* HDMI, 2* RS232+485+CAN, 2* USB3.2, 2* USB2.0, 1* TF, 1* SIM, 4*1226IT PoE, 1* 2.5"SATA, 16GPIO, Power Supply, Accessories Kits