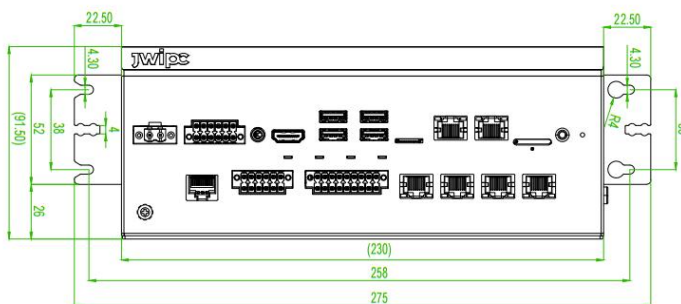
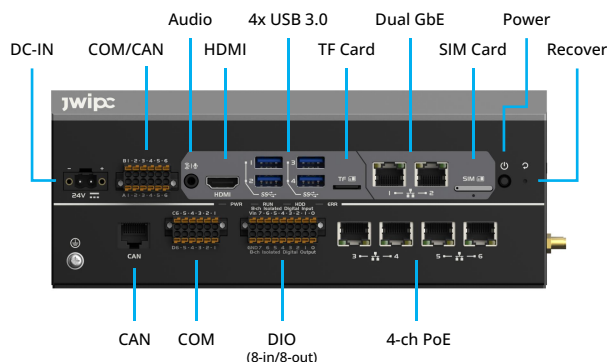


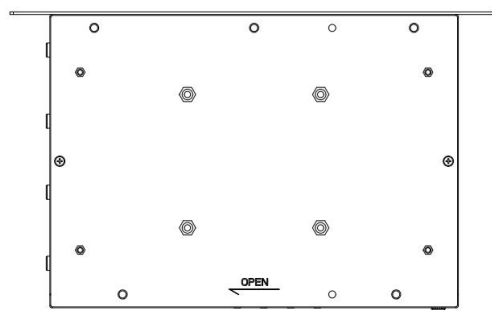
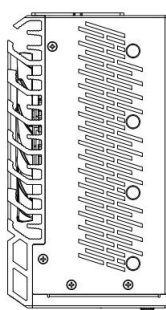
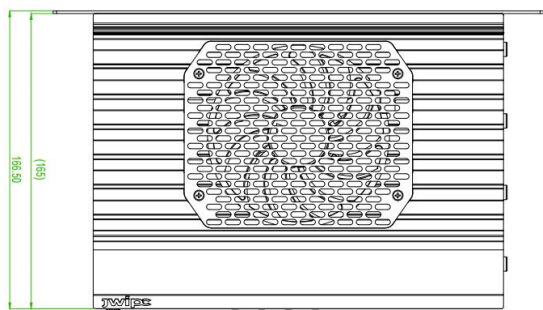
Features

- NVIDIA Jetson AGX Orin 32GB/64GB module
- Ampere architecture GPU + Cortex-A78AE CPU
- Delivers up to 275 TOPS of AI performance
- Supports 6-port GbE LAN (with 4-port PoE)
- Supports WiFi, BT or 5G/4G expansion
- Supports CAN bus, Serial Ports & 16-bit DIO
- Supports GPS & TPM 2.0 module
- Industrial-grade enclosure with hybrid cooling
- Wide temperature & wide voltage support

Product View



Dimensions



System	AI Platform	NVIDIA Jetson AGX Orin 32GB	NVIDIA Jetson AGX Orin 64GB
	AI Performance	Up to 200 Sparse TOPs (INT8)	Up to 275 Sparse TOPs (INT8)
	CPU	8-core Arm Cortex-A78AE v8.2 64-bit CPU	12-core Arm Cortex-A78AE v8.2 64-bit CPU
	GPU	1792-core NVIDIA Ampere architecture GPU with 56 Tensor Cores	2048-core NVIDIA Ampere architecture GPU with 64 Tensor Cores
	NPU	2x NVDLA v2 for accelerating deep learning workloads	2x NVDLA v2 for accelerating deep learning workloads
	HW Video Codec	Up to 18x 1080p30 H.265 decode streams Up to 12x 1080p30 H.265 encode streams	Up to 22x 1080p30 H.265 decode streams Up to 16x 1080p30 H.265 encode streams
	Memory	On-board 32GB 256-bit LPDDR5	On-board 64GB 256-bit LPDDR5
Storage	Storage Device	On-board 64GB eMMC 5.1 for OS	
	Expansion	1x M.2 2280 NVMe SSD (PCIe x4) 1x Micro SD slot	
Network	Ethernet	2x RJ45, 10/100/1000 Mbps	
	WiFi	1x M.2 Key E for WiFi 5/WiFi 6	
	5G/4G	1x M.2 Key B for 4G/5G with Micro SIM slot	
	Others	On-board GPS module	
Camera	Controller	4x RTL8119I via PCIe Packet Switch	
	Interface	4x RJ45, 10/100/1000 Mbps	
	Power Supply	4-ch PoE (optional), supports IEEE 802.3at/af, up to 15W per channel	
Multimedia	Display	1x HDMI 2.1 up to 4K60	
	Audio	1x 3.5mm Combo Jack	
I/O	USB	4x USB 3.0 Type-A	
	COM/CAN	1x 12Pin-3.5mm connector (2x Isolated RS-232/485, 1x Isolated CAN) 1x 12Pin-3.5mm connector (2x Isolated RS-232/422/485) 1x RJ45 Isolated CAN	
	DIO	16x Isolated DIO (8-in/8-out)	
Other Features	Watchdog	Watchdog Timer & power on/off management	
	Real Time Clock	On-board RTC chip, battery-backed	
	Security	On-board Z32H330TC TPM 2.0 module	
Power	Power Input	9~36V DC-IN, supports over-current & over-voltage protection	
	Interface	2-pole lockable terminal block	
	System Ctrl	Power button, Recovery button, Buzzer, 4x LEDs (PWR/RUN/HDD/ERR)	
Mechanical	Dimensions	230 x 165 x 91.5mm (9.06" x 6.5" x 3.6")	
	Mounting	Wallmount, Bookmount, DIN Rail	
Software	OS Support	Ubuntu 20.04 + JetPack 5.1.2 / Ubuntu 22.04 + JetPack 6.2	
Environment	Operating Temp.	-25~60°C (-13~140°F) w/ 0.7m/s airflow	
	Storage Temp.	-40~85°C (-40~185°F)	
	Humidity	10%~85% RH, non-condensing	
	Certifications	CCC, CE Class A	

Part Number	AI Accelerator	Memory	Storage	Wireless	COM Option	Operating Temp.
PAS-6101-JAO32	Jetson AGX Orin 32GB	32GB LPDDR5	256GB SSD	WiFi 5 included	Select by jumper	-25~60℃
PAS-6101-JAO64	Jetson AGX Orin 64GB	64GB LPDDR5	256GB SSD	WiFi 5 included	Select by jumper	-25~60℃

■ Packing List

Article	Description
Jetson Orin module	Pre-integrated
NVMe SSD	Pre-integrated
Wireless module	Pre-integrated
180W Power Adaptor	AC 100~240V to DC 24V/7.5A
Power Cord	CCC 250V/10A
Other items	Mounting kit, connectors, etc.

■ Optional Accessories

Article	Description
256GB NVMe SSD	OM8PGP4256Q-A0, M.2 2280 PCIe Gen4 x4 NVMe (0~70℃)
512GB NVMe SSD	OM8PGP4512Q-A0, M.2 2280 PCIe Gen4 x4 NVMe (0~70℃)
1TB NVMe SSD	OM8PGP41024Q-A0, M.2 2280 PCIe Gen4 x4 NVMe (0~70℃)
256GB NVMe SSD (wide temp.)	TS256GMTE712A-VS1, M.2 2280 PCIe Gen4 x4 NVMe (-20~75℃)
512GB NVMe SSD (wide temp.)	TS512GMTE712A-VS1, M.2 2280 PCIe Gen4 x4 NVMe (-20~75℃)
1TB NVMe SSD (wide temp.)	TS1TMTE712A-VS1, M.2 2280 PCIe Gen4 x4 NVMe (-20~75℃)
256GB NVMe SSD (industrial)	TS256GMTE712AI-VS1, M.2 2280 PCIe Gen4 x4 NVMe (-40~85℃)
512GB NVMe SSD (industrial)	TS512GMTE712AI-VS1, M.2 2280 PCIe Gen4 x4 NVMe (-40~85℃)
1TB NVMe SSD (industrial)	TS1TMTE712AI-VS1, M.2 2280 PCIe Gen4 x4 NVMe (-40~85℃)
WiFi 5 Expansion kit	AW-CB515NF 802.11ac WiFi 1T1R and BT 5.0 combo module with antenna
WiFi 6 Expansion kit	AW-XB547NF 802.11ax WiFi 2T2R and BT 5.2 combo module with antenna
4G Expansion kit	Quectel EM05-CN LTE Cat 4 module with antenna
5G Expansion kit	Quectel RM500U-CNV 5G Sub-6 GHz module with antenna
Thermal kit for 5G module	Al. heatsink with thermal pad & screws
Thermal kit for SSD	Al. heatsink with thermal pad & screws
Wall mount kit	Wall mount brackets with screws