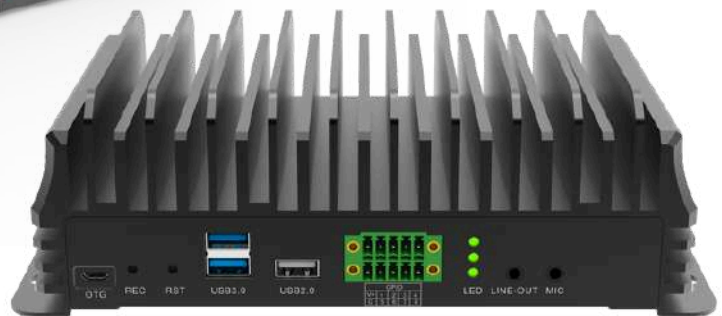




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JETSON-NVIDIA MINI AI Edge Computing

MT-520-JETSON- NVIDIA-6C-384GC-8R-16S



Description :

MT-520-Jetson- Nvidia-6C-384GC-8R-16S

are industrial embedded high-performance edge AI machines based on NVIDIA Xavier NX(8GB RAM) module. With NVIDIA module and self-developed carrier board, combined with the powerful expansion bus of the module, it not only realizes the small size requirements of the whole machine, but also shows Xavier's super reasoning and processing ability. They are small edge computing machines suitable for high-performance video, image (Human, object, word and other feature elements) recognition and reasoning operations. Match wired or wireless networks with cloud servers to perfectly realize the solutions of cloud learning and endpoint reasoning in AI and IOT industries. These industrial computers are very suitable for AI and IOT intelligent industries, and are widely used in security monitoring, smart community, smart campus, UAV, unmanned retail, robot, smart medical and other fields.

Industrial stability:

The high reliability design concept of industrial computer is adopted, and the chassis is designed of all aluminum alloy, with compact and solid structure, passive heat dissipation and zero noise operation on the chassis wall. The outer wall sandblasting process and industrial iron gray are perfectly integrated into the industrial site.



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Excellent performance:

- Wide temperature operation: -30 °C -60 °C;
- Dual power input interface, input voltage: DC 12-24V, and equipped with Phoenix and adapter dual power input interface, which can be flexibly used in indoor, outdoor, on-board and other environments;
- Flexible fixation: Double choices of foot pad fixation and bracket fixation;
- Programmable green LED indicator

On demand configuration:

Different modules and accessories can be selected according to actual performance and functional requirements.

Main technical specifications :

Model	MT-520-JETSON- NVIDIA-6C-384GC-8R-16S
CPU	6-core Camel ARM v8.2 64bit CPU, 1.9GHz
GPU	Volta, 384 CUDA cores and 48 Tensor cores, 1.1GHz
AI performance	21TFLOPS(INT8)
Storage	16GB eMMC + TF card + Nvme SSD
Memory	8GB 128bit LPDDR4, Bandwidth 59.7GB/S, 1600MHz



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Video	Encode: • 2x464 MP/sec (HEVC), 2x 4K @ 30 (HEVC) • 6x 1080p @ 60 (HEVC), 14x 1080p @ 30 (HEVC) Decode: • 2x690 MP/sec (HEVC), 2x 4K @ 60 (HEVC), 4x 4K @ 30 (HEVC) • 12x 1080p @ 60 (HEVC), 32x1080p @ 30 (HEVC), 16x 1080p @ 30 (H.264)
Network	2* RJ45 Giga LAN
	1* WIFI (optional), 1* 4G/5G(module is optional)
COM	1* RS485(2* 5PIN phoenix), 1* RS232(2* 5PIN phoenix)
CAN	1* CAN (2* 5PIN phoenix)
USB	2* USB 3.0, 1* USB 2.0, 1* OTG (Only supports system burning)



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Extend	• 1* MiniPCle1 slot(USB3.0 single for 4G/5G, module is optional) 1* MiniPCle2 slot (PCle single, module is optional) • 1* M.2 M-key 2280 slot(Nvmex1 for SSD, Choose one from miniPCle2)
GPIO	8* GPIO (Bidirectional, DC+/GND, DC+ supports 3.3V/5V/1.8V, and the default output is 3.3V/Current 1A)
HDMI	1* HDMI
LED	1* Green LED(Power state), 2* Green LED(Control by GPIO)
DC IN	1* 2PIN phoenix/1* DC_IN (12-24V) LAN2 supports PD power supply (only TABNNX03P supports, 802.3at protocol)
Switch	1* Recovery Button, 1* Reset Button



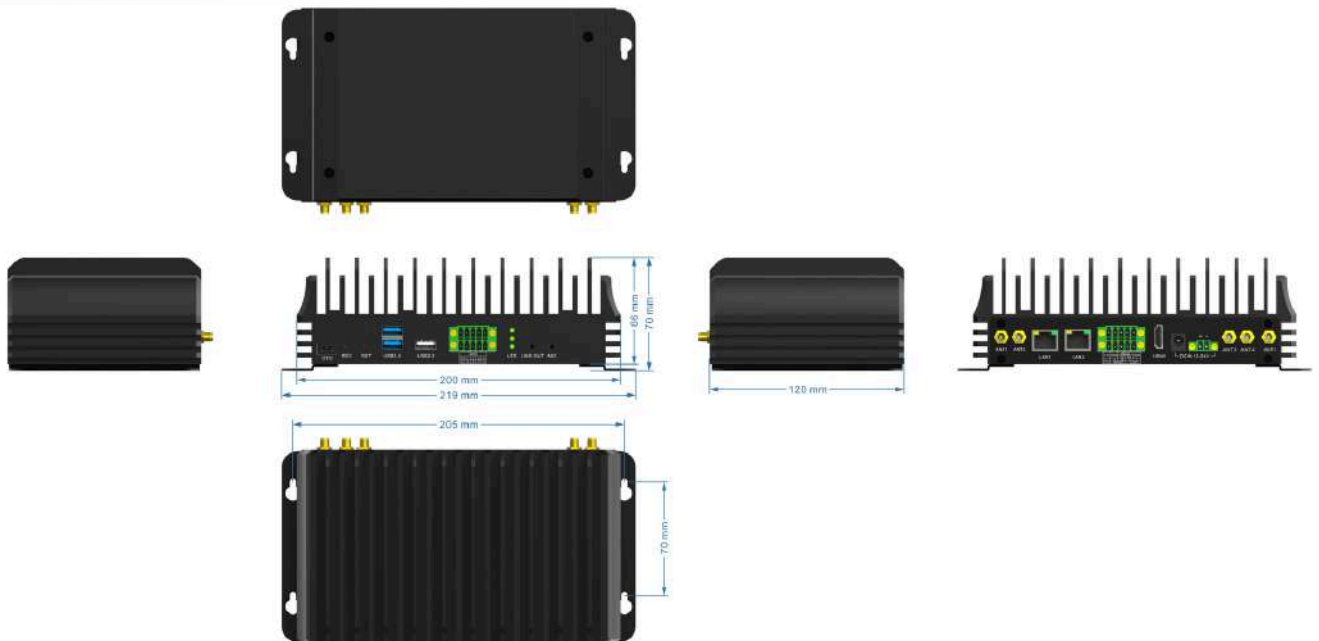
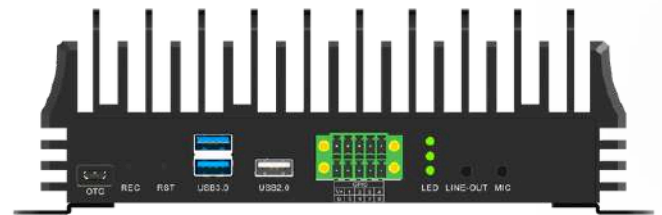
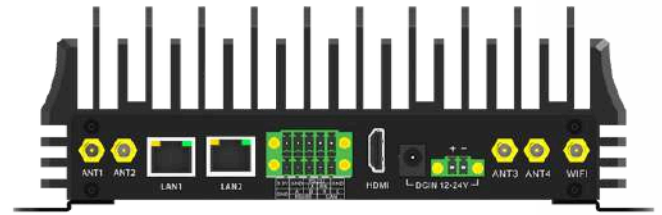
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Environment	Operating temperature: -30°C to 60°C Storage temperature: -30°C to 80°C
	Humidity: 5%-95% relative humidity, No condensation
Power waste	Desktop standby: 5W, CPU/GPU/Memory full loading: 22W
Size	200*120*66(mm), With packaging: 300*245*100(mm)
Weight	Net weight: 1.6Kg, Including packaging and accessories: 2.2Kg
Dissipate heat	Iron gray aluminum shell, sand blasting process, top fin heat dissipation
Installation/fixing	Desktop placement or bracket installation
OS	Linux JP4.6(Ubuntu 18.04)



Images

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Applications



1. Robotics



2. Edge AI Development



3. Autonomous Vehicles



4. Industrial IoT