

Micro Server | Specification

1 Product Introduction

This device is an edge AI computing box with high performance and low power consumption. Equipped with TPU chip BM1684, its INT8 computing power is up to 17.6TOPS. It can process 16 channels HD video, and support 38 channels 1080p HD video hardware decoding and 2 channels encoding. As an edge device supporting wide temperature and multiple interfaces, it can be applied in a variety of scenarios such as intelligent security, transportation, facial recognition, video structured analysis, etc.

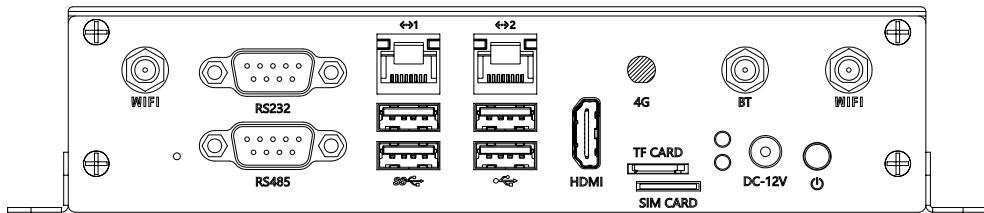
2 Product Specification

Specification		Description
Processor	TPU	BM1684 INT8 @17.6 TOPS / FP32 @2.2 TFLOPS
	CPU	Octa-core ARM A53 2.3GHz
Video/JPEG Codec	Video Decoding	H.264/H.265 1080P @960FPS
	Video Encoding	1080P @50FPS
	JPEG Encoding	1080P 480 images/second
Memory	DDR	12GB
Storage	eMMC	32GB
External Interface	Networking	10/100/1000Mbps *2
	Others	USB3.0*2 / USB2.0*2 / HDMI*1 / RS-232*1 / RS-485*1 / MicroSD*1
	Optional	M.2 SATA3.0 SSD (2242) *1 / 4G LTE (Mini PCIe) / 5G (M.2)
Physical Spec.	Size	210mm*130mm*44.5mm
	Power	DC 12V / 5A adapter
	Typical Power Consumption	≤20W (depending on configuration)
Environment Spec	Working Temp.	-20°C ~ +60°C (depending on configuration)

3 Hardware Specification

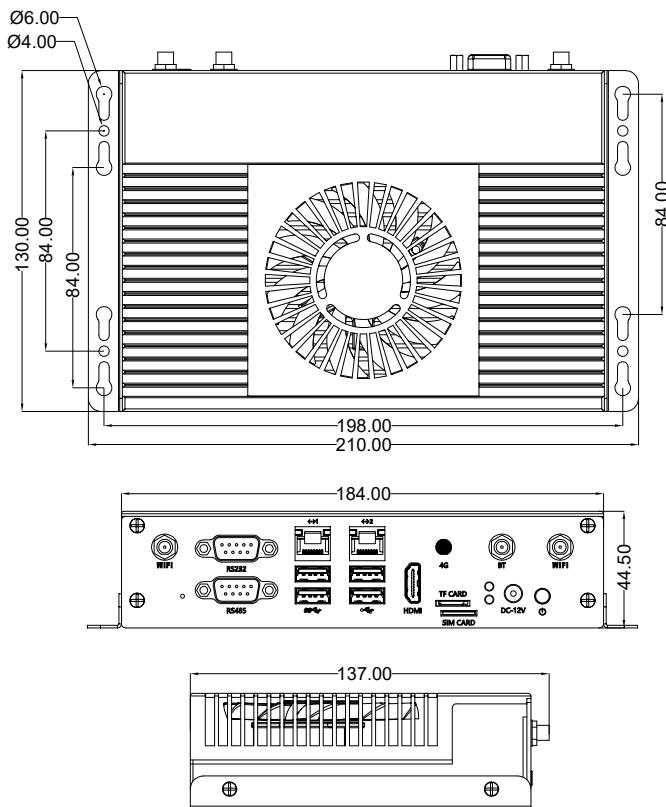
Front Panel

The illustration and description of device front panel are as follows:



Silkscreen Printing	Name	Description
WIFI	WIFI antenna	External WIFI rod antenna
BT	BT antenna	External BT rod antenna
4G	4G antenna	External 4G rod antenna (Optional)
↔↔	Gigabit Ethernet	1000Mbps(RJ45) *2
SS↔↔	USB3.0	USB3.0 *2
↔↔	USB 2.0	USB2.0 *2
HDMI	HDMI	HDMI *1
TF CARD	TF Card Slot	Extended storage
SIM CARD	SIM Card slot	Extended to 5G / 4G LTE (Optional)
DC-12V	DC IN	5.5mm*2.5mm
POWER	Power	Long press and hold the power button for 10 seconds until the yellow light flashes and release it to enter the factory reset

4 Size



5 Instruction



Google drive



Aliyun drive

Please scan the QR code to check the installation instructions.

6 Packing List

Serial Number	Item	Quantity	Description
1	Micro Server	1	Micro Server
2	Power adapter	1	12V/5A
3	Ethernet cable	1	Oxygen-free copper Cat5 Ethernet cable (1m)
4	Video cable	1	HDMI video cable (1m)
5	Antenna	3	WiFi / BT Antenna
6	Product manual	1	Product introduction, product specifications, hardware introduction, packing list, etc.
7	Warranty	1	User information, purchase information, maintenance records, warranty terms, etc.
8	Certificate	1	Factory inspection certificate

7 FCC Regulatory Compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

RF Exposure Compliance

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The equipment should be installed with at least distance 20 cm between the radiator and your body. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.