

## GB200 Edge Computing Gateway



### Product Brief Introduction

The GB200 edge computing gateway is equipped with NVIDIA Jetson™ TX2 NX core module. NVIDIA Jetson™ TX2 NX provides a new generation of embedded edge computing products for entry-level AI performance. It adopts Jetson Nano and Jetson Xavier™NX pin to pin design so that its performance is 2.5 times that of Jetson Nano. Moreover, it features small size, flexible installation, rich interfaces, and flexible expansion capabilities.

The GB200 gateway can be widely used in manufacturing, logistics and transportation, retail, services, agriculture, smart cities, healthcare and life sciences, smart machines, and industrial monitoring. At the same time, it could build, deploy and manage pre-trained AI models from NVIDIA NGC™ with local cloud technology.

### Features and Highlights

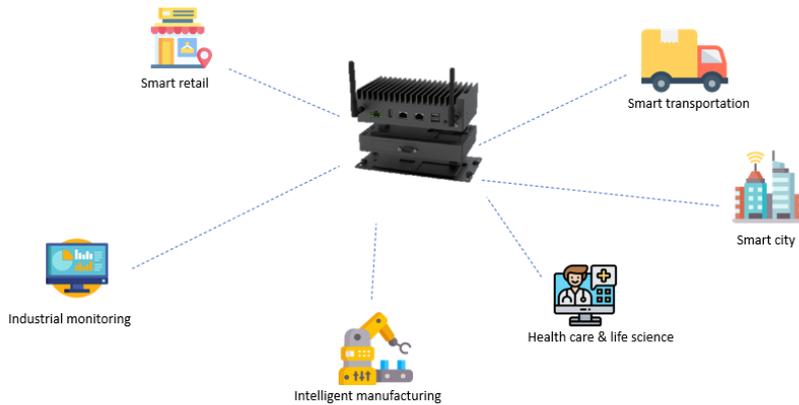
#### GB200

-  NVIDIA Jetson TX2 NX
-  Heat map analysis
-  Facial recognition, behavior recognition
-  Long lifetime
-  Compact structure, easy to deploy
-  IP50 protection against vibration
-  Fanless embedded design, strong anti-interference performance
-  NVIDIA NGC open eco-system
-  Local reasoning, excellent computing power
-  Flexible expansion
-  Easy to maintain
-  Quick upgrade

**GB200 Edge Computing Gateway Datasheet**

GB200		
<b>System</b>	CPU	NVIDIA Jetson TX2 NX, Dual-core NVIDIA Denver 1.5 64-bit & Quad-Core ARM Cortex-A57 MPCore
	AI performance	1.33 TFLOPS
	GPU	NVIDIA Pascal™ architecture with 256 NVIDIA® CUDA cores
	Memory	4GB 128-bit LPDDR4 x 51.2GB/s
	Storage	16GB eMMC 5.1 1 x TF slot
<b>Communication</b>	Ethernet	2 x Gigabit Ethernet
	Wi-Fi	Supported
	4G LTE/5G	Supported
<b>Media</b>	Video encode	1 x 4K @ 60 (HEVC)
		4 x 1080p @ 60 (HEVC)
		8 x 1080p @ 30 (HEVC)
		7 x 1080p @30 (HEVC)
	Video decode	2 x 4K @ 60 (HEVC)
		4 x 4K @ 30 (HEVC) 7 x 1080p @ 60 (HEVC) 20 x 1080p @ 30 (HEVC)
<b>I/Os</b>	USB	2 x USB 3.0
	Display	1 x HDMI Type A
	Media	2 x MIPI (CSI)
	Button	1 x Power button
		1 x Recovery button
	Serial	1 x RS232/RS422/RS485
	CAN	1 x CAN
	GPIO	4 x GPIO
	BUS	1 x 30-pin I/O (GPIO/I <sup>2</sup> S/I <sup>2</sup> C/Audio/SPI/UART)
	User expansion	1 x Mini-PCIe or 1 x M.2 E-Key 2230 for Wi-Fi
		M.2 M key 2280 NVME (PCIe)
M.2 B-Key for 4G LTE/5G 1 x Nano SIM Socket		
<b>Mechanical</b>	Dimensions	189mm x 96.7mm x 57.5 mm
	IP rating	IP50
	Net weight	1.1 kg
<b>Power</b>	Input	12-24V DC, 2-pin terminal
<b>Environment Condition</b>	Temperature	Operating: -20°C ~ +60°C CPU/GPU full loaded operation - 20°C ~ +75°C frequency reduction operation
		Storage: -40°C ~ +75°C
	Humidity	RH 5%~90% @+ 40°C (Non-condensing)
	Operation vibration	3 Grms, 5~500Hz
	Certification	CCC, RoHS, SRRC

## Application Scenarios



## Accessories and Order Information

Order Info	GB200
-X	- 1: Mini-PCIe for Wi-Fi - 2: M.2 E-Key 2230 for Wi-F
-XX	- x0: Without wide temperature SSD - x1: With wide temperature SSD
Example	GB200-11: Mini-PCIe for Wi-Fi, 1 x Wide temperature SSD

## Company Profile

Since 2002 established by two Silicon Valley entrepreneurs, Vantron Technology has been a pioneer in connected IoT devices and IoT platform solutions. Today, Vantron serves countless customers all over the world, some of them are Fortune 500 companies. Products lines cover edge intelligent hardware, IoT communication devices, industrial displays and BlueSphere cloud device management platform.

Vantron has 20 years of experience in R&D of embedded edge intelligent hardware like SOM board and motherboard, and provided users with various embedded solutions with ARM and X86 architecture. From Linux to Windows, from embedded to desktop level, from gateway to server. At the same time, we provide our users with system clipping, driver transplantation and other services.

Vantron IoT communication devices support multi-protocol connection of industrial equipment, edge computing of local data. Abundant wired and wireless connectivity make remote operations and maintenance possible. From electricity and transportation to smart retail, medical and warehousing, Vantron IoT communication device can be deployed anywhere in any business section. Vantron believes its IoT solution to help many companies finish their digital transformation, efficiency of manufacturing and productivities have been improved significantly.

Vantron industrial display systems, ARM and X86 series, are equipped with Rockchip, NXP, MediaTek, Intel and other high-performance processors. It supports various operating systems such as Windows, Linux, and Android. Diverse wireless communications keep your device online all the time. Multiple installation methods make it suitable for a variety of application scenarios. Features like waterproof, dustproof, shatter resistant guarantee the best performance in any environment.

Vantron BlueSphere device management platform, a software product, is playing a big role in Vantron overall IoT solution. Today, Vantron puts more focus on offering complete cost effective, leading-edge yet reliable solutions to help customers carry out their visions.