

GBTA Industrial Gateway



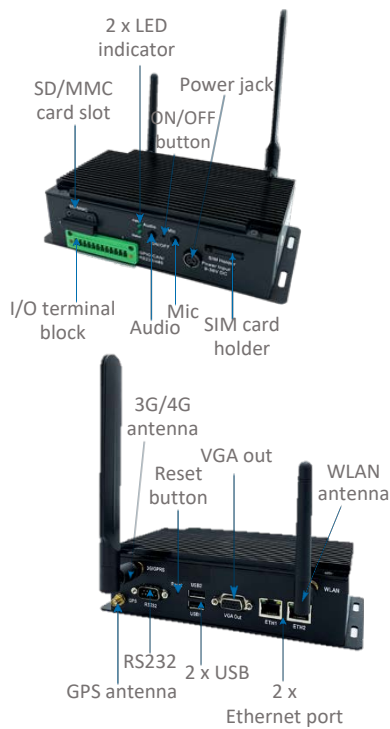
Product Brief Introduction

Vantron GBTA is an X86-based industrial gateway designed for industrial IoT communication and application in various industrial scenarios. Powered by the cost-effective Intel® Atom™ Bay Trail processor that optimizes the gateway performance yet at very low power consumption, the gateway provides rich peripheral interfaces to meet different requirements at industrial sites.

The gateway supports edge computing, remote management, and remote upgrade. Customers have a wide range of choices for wireless communication, including 3G/4G cellular networks, WLAN, Bluetooth, GPS, ZigBee, and LoRa. Moreover, the Software Development Kit (SDK) is available for customers to create an ecosystem for their specific use.

With complete industrial design, the gateway could withstand wide operating temperatures ranging from -20°C to +70°C, making it a reliable companion for industrial IoT application.

Exterior and Features



GBTA



Low power consumption, high cost performance



Rich industrial interfaces



3G/4G/Wi-Fi/Bluetooth/GPS/ZigBee/LoRa supported



SDK available



Edge computing supported



Remote management and upgrade

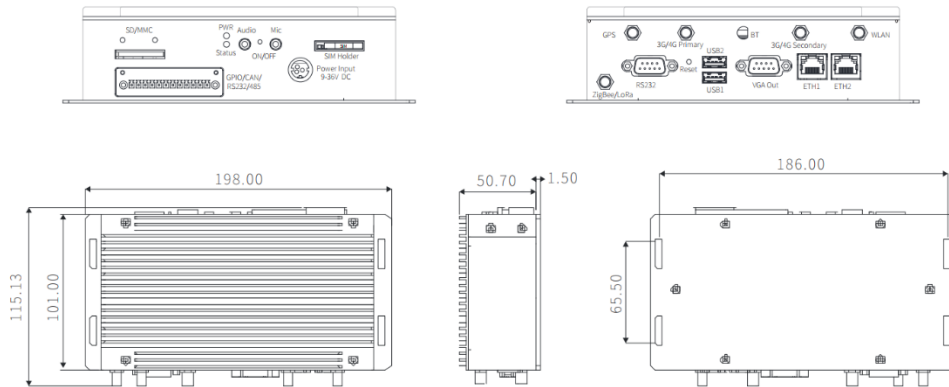


-20°C~+70°C wide temperature range

GBTA Industrial Gateway Datasheet

GBTA		
System	CPU	Intel® ATOM™, E3845/1.91GHz, E3827/1.75GHz, E3815/1.46GHz, Single/Dual/Quad Core
	Memory	Up to 2GB
	Storage	1 x 16GB Half SATA SSD (Optional: 32GB) 1 x SD card (Optional)
Communication	Ethernet	2 x RJ45, 10/100/1000M Base-T
	CAN	1 x CAN (On the terminal block)
	3G/4G	1 x PCIe for 3G/4G cellular module with SIM slot (Optional)
	Wi-Fi & Bluetooth	Wi-Fi 802.11 b/g/n & Bluetooth (Optional)
	ZigBee/LoRa	Low-power ZigBee module/LoRa module (Optional)
	GPS	GPS module (Optional)
Display	Interface	1 x VGA (DB15)
	Resolution	Up to 2560x1600@60Hz
I/Os	Serial port	1 x RS232/RS422/RS485 (DB9) 1 x RS232/RS485 (On the terminal block)
	USB	1 x USB 2.0 Host (Type A)
	Audio	1 x 3.5mm Mic 1 x 3.5mm Headphone
	GPIO	1 x GPIO (On the terminal block)
	Accelerometer	1 x Accelerometer, 3-Axis
	Alarm	1 x Buzzer
	RTC	Supported
Security	Security	1 x SHA-1 encryption/decryption chip DS28E01 (Optional) 1 x TPM (Optional)
System Control	Button	1 x ON/OFF button 1 x Reset button
Mechanical	Dimensions	176 x 101 x 52mm (Enclosure only) 198 x 101 x 52mm (With installation bracket)
	Enclosure	Black aluminum alloy
	Installation	DIN rail mount/Wall mount/Panel mount
	Cooling mode	Fanless, Heat sink
	Weight	Net: 0.6kg Gross: 1.2kg
Power	Input	12/24V DC (9V-36V)
	Consumption	6W (Max. 8W) Sleep 2W (Without 3G/GPS/ZigBee/WLAN)
Software	OS	Windows, Linux
	SDK	Available
Environment Condition	Temperature	Operating: -20°C ~ +70°C (Optional: -40°C ~ +85°C) Storage: -40°C~+85°C
	Humidity	RH 5%-95% (Non-condensing)
	Certification	UL, IC, FCC, CE, RoHS, PTCRB

Product Outlines



Accessories and Order Information

Accessories			Order Info	GBTA
GBTA	12V Power adapter	1 pc	-x	-1: Single core; -2: Dual core; -3: Quad core
	Power cable	1 pc	-xx	-x1: 3G/4G; -x2: Wi-Fi & BT; -x3: ZigBee; -x4: LoRa; -x5: GPS
	3G/4G antenna (Optional)	2 pcs		-x6: Whole-set modules (excl. ZigBee)
	Wi-Fi & BT antenna (Optional)	1 pc		-x7: Whole-set modules (excl. LoRa)
	ZigBee/LoRa antenna (Optional)	1 pc	-xxx	-xx1: 16GB SSD; -xx2: 32GB SSD
	GPS antenna (Optional)	1 pc	-xxxx	-xxx1: DIN rail mount; -xxx2: Wall mount; -xxx3: Panel mount
	DIN rail mount bracket (Optional)	1 pc	Example	GBTA-3211: Quad core processor, Wi-Fi & BT module on board, 16GB SSD, DIN rail mount
	Wall mount bracket (Optional)	1 pc		

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.