



## G202 Industrial Edge Computing Gateway

### Product Brief Introduction

Vantron G202 industrial edge computing gateway is an entry-level gateway launched by Chengdu Vantron Technology Co., Ltd. to meet the needs of IIoT applications in various industrial scenarios. It combines dual SIM LTE, Wi-Fi, Ethernet, multiple programming languages, and virtual private network to meet diversified networking requirements. With varying industrial protocols supported, it could interact with PLCs, sensors and other IoT devices on site. G202 applies a communication tactic that uses multiple channels with failover protocol, which together with the high-reliability watchdog maintains a secure and stable network access. As is compact in size, G202 supports panel mount, DIN rail mount, and wall mount to meet the requirements of varying sites. Meanwhile it provides access to Vantron BlueSphere cloud platform for unified management to ease the efforts of users by real-time monitoring and tracking, OTA updates, remote maintenance, task assignment and follow-up.

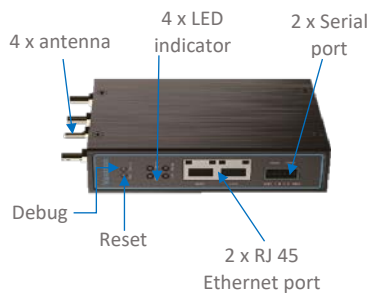
Featuring high stability and reliability, excellent cost performance, and broad protocol accessibility, G202 industrial edge computing gateway is especially suitable for large-scale data acquisition and cloud platform communication in the following scenarios:

Intelligent manufacturing: injection molding machine, numerical control machine

Intelligent water conservation: water treatment

Intelligent security & intelligent transportation

### Exterior and Features



#### G202



Low power consumption, excellent cost performance



Sufficient industrial interfaces



Wired and wireless network accesses



Multiple industrial protocols supported for communication with field PLCs, etc.



MQTT protocol supported to provide broad access to IoT platforms



Local edge computing supported



C/C++/Python supported



Complete industrial design

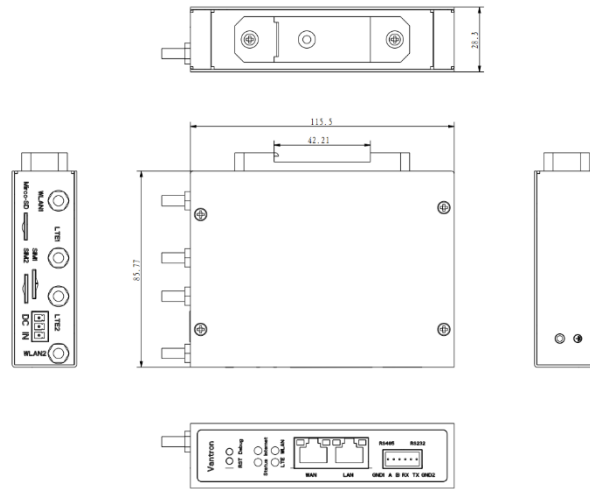


Compact size and flexible installation for varying sites

**G202 Industrial Gateway Datasheet**

G202		
	Memory	64MB
	Storage	256MB 1 x Micro SD card, up to 64GB
<b>Communication</b>	Ethernet	2 x RJ45, 10/100Mbps
	4G LTE	CAT M/CAT 1/CAT 4
	Wi-Fi & Bluetooth	2.4GHz, 802.11 b/g/n, 300Mbps, AP & Client
	Ethernet port protocol	PPP, PPPoE, DHCP, ARP
<b>I/Os</b>	Serial port	1 x RS485 1 x RS485 (default)/RS232, isolated
	SIM slot	2 x Drawer-type SIM slot
	Grounding	Enclosure & PCB
<b>System Control</b>	Button	1 x Reset button 1 x Debug button
	LED	1 x Status 1 x Internet 1 x LTE 1 x WLAN
<b>Mechanical</b>	Dimensions	115.5 x 85.77 x 28.3mm
	Enclosure	Metal
	Installation	DIN rail mount/Wall mount/Panel mount
	IP rating	IP30
	Cooling mode	Fanless
<b>Power</b>	Input	9-36V DC, Over-current protection, Anti-reverse protection
	Terminal	3-pin 3.81mm terminal
<b>Software</b>	OS	Vantron OS
	SDK	Available
	Network management	SNMP v1/v2c/v3
	Device management platform	Vantron BlueSphere
	Third-party platform	MQTT
	IPK import	Supported
	Interface language	Chinese and English (Default) Other languages (Optional)
	NTP	Supported
Log	Supported	
<b>Security</b>	Firewall	Supported
	Data security	OpenVPN, L2TP, PPTP, IPSec
	Link detection	Heartbeat detection, automatic reconnection
	Network reliability	Failover, Ethernet Link, Wi-Fi, 4G LTE backup
	Multi-level permission	Supported
<b>Application</b>	Configuration mode	Local, remote
	Upgrade	Local, OTA update
	Networking guide	One-key configuration of LTE, Wi-Fi, and Ethernet
	IP application	Ping, Traceroute, Nslookup
	IP Routing	Static routing
	NAT	Supported
<b>Industrial Protocol</b>	Industrial protocol	Modbus TCP, Modbus RTU, EtherNet/IP, ISO-on-TCP, CC-link, etc.
<b>Edge Computing</b>	Edge computing	Supported by local script
<b>User Programmable</b>	Development language	C/C++/Python
<b>Environment Condition</b>	Temperature	Operating: -20°C ~ +60°C Storage: -40°C~+70°C
	Humidity	RH 5%-95% (Non-condensing)
	Certification	CE, FCC, PTCRB

## Product Outlines



## Accessories and Order Information

Accessories	
G202	Power Adapter: 1 pc
	Power Cable: 1 pc
	Wi-Fi & BT antenna: 2 pcs
	4G LTE antenna (Optional): 2pcs
	DIN rail mount bracket (Optional): 1pc
	Wall mount bracket (Optional): 1pc

Order Info	G202
-X	-1: 1 x RS485, 1 x RS232 / -2: 2 x RS485
-XX	-x0: 4G LTE not supported / -x1: LTE CAT 1 supported -x2: LTE CAT M supported / -x3: LTE CAT 4 supported
-XXX	-xx1: DIN rail mount / -xx2: Wall mount / -xx3: Panel mount
Example	G202-201: 2 RS485 ports, 4G LTE not supported, DIN rail mount

## 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.