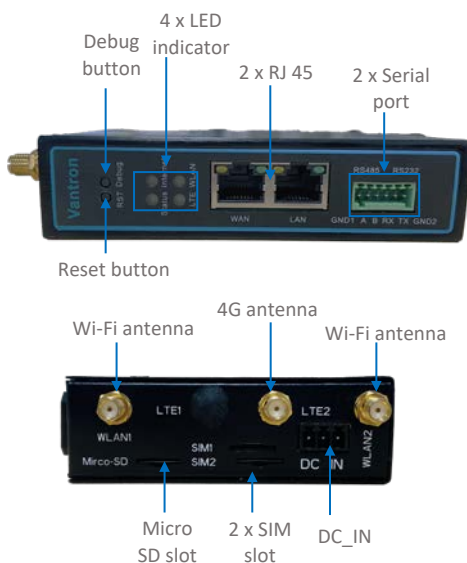# G202 Edge Computing Gateway

Product Brief Introduction

Vantron G202 industrial edge computing gateway is an entry-level edge computing gateway launched to meet the needs of IIoT applications in various industrial scenarios. It combines dual SIMs, 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

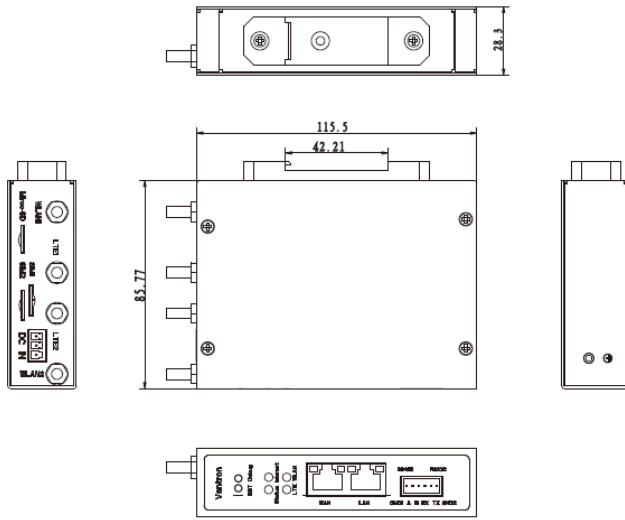Intelligent security & intelligent transportation

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 connect to varied IoT platforms
Local edge computing supported
C/C++/Python supported
Complete industrial design
Compact size and flexible installation for varying sites

G202 Edge Computing Gateway Datasheet

G202		
System	Memory	128MB DDR2
	Storage	32MB Flash 1 x Micro SD card, up to 64GB
Communication	Ethernet	2 x RJ45, 10/100Mbps
	4G LTE	CAT M/CAT 4
	Wi-Fi & Bluetooth	2.4GHz, 802.11 b/g/n, 300Mbps, AP & Client
	Ethernet port protocol	PPP, PPPoE, DHCP, ARP
I/Os	Serial port	1 x RS485 1 x RS485 (default)/RS232, isolated
	SIM slot	2 x Drawer-type SIM slot
	Grounding	Enclosure & PCB
System Control	Button	1 x Reset button 1 x Debug button
	LED indicator	1 x Status 1 x Internet 1 x 4G LTE 1 x WLAN
Mechanical	Dimensions	115.5mm x 85.77mm x 28.3mm
	Enclosure	Metal
	Installation	DIN rail mounting
	IP rating	IP30
	Cooling mode	Fanless
Power	Input	9-36V DC, Over-current protection, Reverse polarity protection
	Terminal	3-pin 3.81mm terminal
Software	OS	VantronOS
	SDK	Available
	Network management	SNMP v1/v2c/v3
	Device management platform	Vantron BlueSphere
	IoT protocol	MQTT
	IPK import	Supported
	Interface language	Chinese and English (Default) Other languages (Optional)
	NTP	Supported
	Log	Supported
Security	Firewall	Supported
	Data security	OpenVPN, L2TP, PPTP, IPSec
	Link detection	Heartbeat detection, automatic reconnection
	Network reliability	Failover supported, link backup between Ethernet Link, Wi-Fi and 4G/LTE
	Multi-level permission	Supported
Application	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
Industrial Protocol	M2M protocol	Modbus TCP, Modbus RTU, EtherNet/IP, ISO-on-TCP, CC-link, etc.
Edge Computing	Edge computing	JavaScript, MicroPython
User Programmable	Development language	C/C++/Python
Environment Condition	Temperature	Operating: -20℃ ~ +60℃ Storage: -40℃~+70℃
	Humidity	RH 5%-95% (Non-condensing)
	Certification	CE, FCC, PTCRB

Product Outlines

Ordering Information

Identifier	4G/LTE	LTE Antenna	Wi-Fi Antenna	DIN rail mounting bracket
G202-FMNA	CAT M	Yes	Yes	Yes
G202-F4NA	CAT 4	Yes	Yes	Yes
G202	-	-	Yes	Yes

Packing list	
G202 Edge computing gateway	1
DIN rail mounting bracket	1
Wi-Fi antenna	2

Optional Accessories	
12V DC Adapter	1
Power cable	1
4G LTE antenna	2

Since 2002 established by two Silicon Valley entrepreneurs, Vantron Technology has been a pioneer in connected IoT devices and IoT platform solutions. Today, Vantron is serving customers all over the world, including many Global Fortune 500 companies. The product lines cover intelligent edge hardware, IoT communication devices, industrial displays and the cloud-based BlueSphere device management platform.

With more than 20 years of experience in R&D of embedded intelligent edge hardware like SOMs and motherboards, Vantron provides users with various ARM- or X86-based embedded solutions. Such solutions provide users with flexible options, from Linux to Windows, from embedded level to desktop level, from gateways to servers. In the meantime, we also offer system clipping, driver transplantation and other services for custom development.