



G202 Edge Computing Gateway

Product Brief

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.

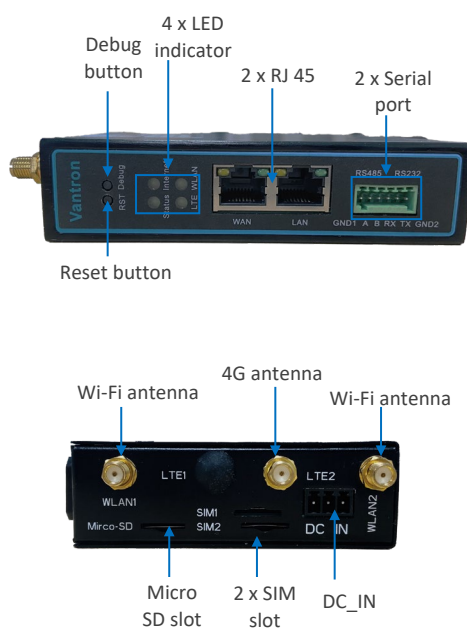
Featuring high stability and reliability, excellent cost performance, and broad protocol accessibility, G202 industrial edge computing gateway is especially suitable for large-scale data acquisition and cloud platform communication in the following scenarios:

Intelligent manufacturing: injection molding machine, numerical control machine

Intelligent water conservation: water treatment

Intelligent security & intelligent transportation

Exterior and Features



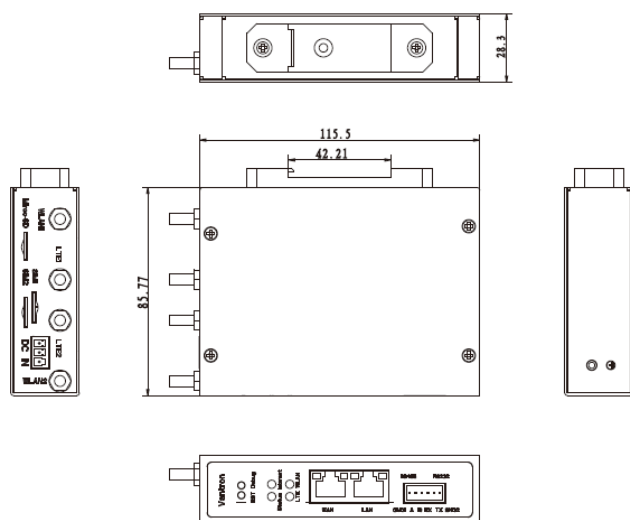
G202

-  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	CPU	MIPS24KEc, 580MHz	
	Memory	256MB DDR2	
	Storage	64MB Flash	1 x Micro SD card, up to 64GB
Communication	Ethernet	2 x RJ45, 10/100Mbps	
	4G LTE	Optional: CAT M/CAT 4	
	Wi-Fi	2.4GHz, 802.11 b/g/n, 300Mbps, AP & Client	
I/O	Serial port	1 x RS485	
		1 x RS232 (Optional: RS485)	
	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 indicator	1 x 4G LTE indicator
		1 x Internet indicator	1 x WLAN indicator
Mechanical	Dimensions	115.5mm x 85.77mm x 28.3mm	
	Enclosure	Metal	
	Installation	DIN rail mounting	
	IP rating	IP30	
	Heat dissipation	Fanless	
Power	Input	9-36V DC, Over-current protection, Reverse polarity protection	
	Terminal	3-pin 3.81mm power terminal	
Software	OS	VantronOS	
	Ethernet port protocol	PPP, PPPoE, DHCP, ARP	
	Custom development	SDK available, C/C++/Python supported	
	Device management platform	Vantron BlueSphere GWM	
	Northbound protocol	MQTT	
	Edge computing script	JavaScript, MicroPython	
	Southbound protocol	Modbus TCP, Modbus RTU, EtherNet/IP, ISO-on-TCP, CC-link, etc.	
	IPK import	Supported	
	Log	Supported	
	Configuration mode	Local, remote	
	Upgrade	Local, OTA update	
Network	NAT	Supported	
	Network management	SNMP v1/v2c/v3	
	NTP	Supported	
	IP application	Ping, Traceroute, Nslookup	
	Routing	Static routing	
Security & Reliability	Firewall	Supported	
	VPN	OpenVPN, L2TP, PPTP, IPSec	
	Link detection	Heartbeat detection, automatic reconnection	
	Network reliability	Failover supported, link backup between Ethernet, Wi-Fi and 4G/LTE	
	Multi-level permission	Supported	
Environmental Condition	Temperature	Operating: -20℃ ~ +60℃	Storage: -40℃~+70℃
	Humidity	5%-95% RH (Non-condensing)	
Certification	Compliance	FCC, CE, PTCRB	

Product Outlines



Ordering Information

Ordering No.	4G LTE	Serial Port Configuration	Memory	Flash
G202	-	RS232 + RS485	256MB	64MB
G202-FMNA-S1	CAT M for the U.S.	RS232 + RS485	256MB	64MB
G202-FMNA-S2	CAT M for the U.S.	2 x RS232	256MB	64MB
G202-F4NA-S1	CAT 4 for the U.S.	RS232 + RS485	256MB	64MB
G202-F4NA-S2	CAT 4 for the U.S.	2 x RS232	256MB	64MB

Packing List	
G202 Edge computing gateway	1
Wi-Fi antenna	2
Serial port connector (Female)	1
DC power connector (Female)	1

Optional Accessories	
12V DC Power adapter	1
Power cord	1
4G antenna (rubber)	2
4G antenna (magnetic base)	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 cloud-based BlueSphere management platforms. Vantron's IoT solutions have helped organizations facilitate their digital transformation, streamline operations, enhance productivity, etc.

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 maintenances possible. From electricity and transportation to smart retail, medical and warehousing, Vantron IoT communication device can be deployed anywhere in any business section. Its IoT solutions have helped many customers significantly improve manufacturing efficiency and productivity.