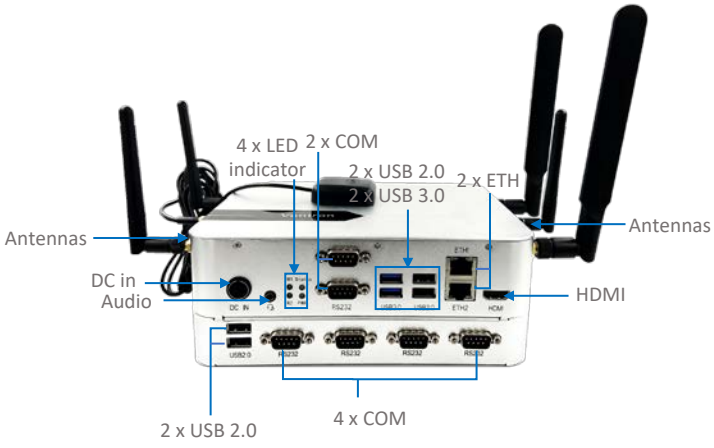
GAPL Edge Computing Gateway

Product Brief

Vantron GAPL is an X86-based edge computing gateway designed for industrial IoT communication and application in various industrial scenarios. It is powered by a cost-effective Intel® Atom™ Apollo Lake processor that optimizes the gateway performance yet at very low power consumption. In addition, it delivers unparallel performance and scalability, ensuring even the most challenging industrial applications run seamlessly.

The gateway adopts industrial design with guaranteed quality and reliability to offer an ideal solution for IoT applications. It provides rich peripheral interfaces, and supports remote management and remote upgrade to meet different requirements at industrial sites. Customers have a wide range of choices for wireless communication, including 4G/5G cellular networks, WLAN, Bluetooth, LoRa and GPS. Moreover, the Software Development Kit (SDK) is available for customers to create an ecosystem for their specific use.

Exterior and Features

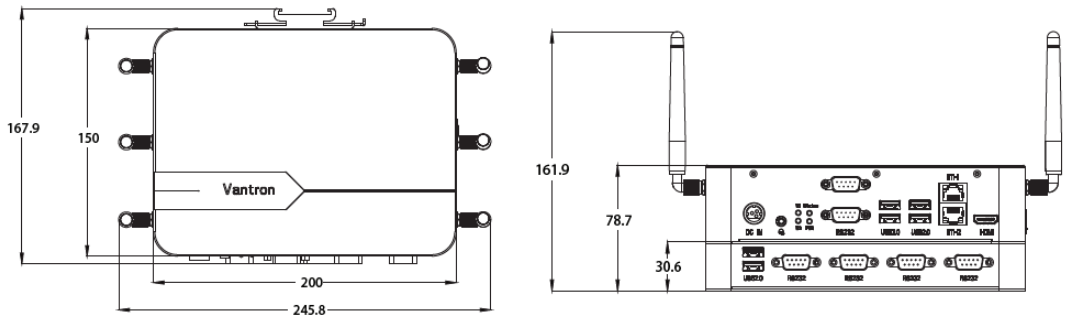


GAPL	
	Low consumption, high performance
	Rich industrial interfaces
	4G/5G/Wi-Fi/Bluetooth/LoRa/GPS supported
SDK	SDK available
	Remote management and upgrade
	Wide input voltage range (12V-36V)

GAPL Edge Computing Gateway Datasheet

GAPL		
System	CPU	Intel® ATOM™ Apollo Lake N/E series processor
	Memory	4GB DDR4, up to 8GB
	Storage	1 x 8GB, up to 64GB 1 x SATA 3.0 (Optional)
Communication	Ethernet	2 x RJ45, 10/100/1000M Base-T
	4G/5G	Optional
	Wi-Fi & Bluetooth	Optional
	LoRa	Optional
	GPS	Optional
Media	Display	1 x HDMI
	Audio	1 x 3.5mm Combo audio jack
I/Os	Serial port	1 x RS232 1 x RS232/RS485/RS422 4 x RS232 (Optional)
	USB	2 x USB 3.0 Type-A 2 x USB 2.0 Type-A 2 x USB 2.0 Type-A (Optional)
	Built-in	1 x Mini PCIe for 4G module connection 1 x M.2 for 5G module connection
System Control	Button	1 x Reset button
	LED	1 x Power indicator (Running: Green; shutdown: Red) 1 x Status indicator (hard disk data writing/reading: Blinking) 2 x Wireless module indicator (Data transmission: Blinking; Customization supported)
Mechanical	Dimensions (dual-layer)	200mm x 150mm x 78.7mm (Enclosure only) 245.8mm x 167.9mm x 78.7mm (With installation brackets)
	Enclosure	Silver-colored aluminum alloy
	Installation	DIN rail mounting/Wall mounting/Panel mounting
Power	Input	12V ~ 36V DC
	Interface	1 x 3-pin DC power jack
Software	OS	Windows 10, Ubuntu
	SDK	Available
	Device management platform	Vantron BlueSphere GWM

Product Outlines



Ordering Information

Ordering No.	Cellular	Wi-Fi & BT	LoRa/GPS	I/Os
GAPL-SW4	4G	Yes	-	Single layer
GAPL-DW4	4G	Yes	-	Dual layers
GAPL	-	Yes	-	Single layer

* More variants are available, please contact the sales executive for details.

Packing list	
GAPL edge computing gateway	1
DIN rail mounting bracket	1
Wi-Fi & BT antenna (round)	2

Optional accessories	
12V DC Power adapter & power cord	1 kit
4G LTE/5G antenna (flat)	2
LoRa antenna	1
GPS antenna	1

Since its establishment in 2002 by two Silicon Valley entrepreneurs, Vantron Technology has been at the forefront of the connected IoT devices and IoT platform solutions. Today, Vantron boasts a global customer base that includes several Fortune 500 companies. Its product lines cover edge intelligent hardware, IoT communication devices, industrial displays and BlueSphere cloud device management platform.

Vantron offers IoT communication devices that facilitate multi-protocol connections for industrial equipment and local data processing through edge computing. With abundant wired and wireless connectivity options, remote operations and maintenance have become easier than ever. Such devices can be deployed across different sectors such as smart retail, medical and warehousing. Vantron IoT solutions are designed to facilitate enterprises' digital transformation, streamline operations, and enhance productivity.