

## VT-USB-CELL USB Dongle



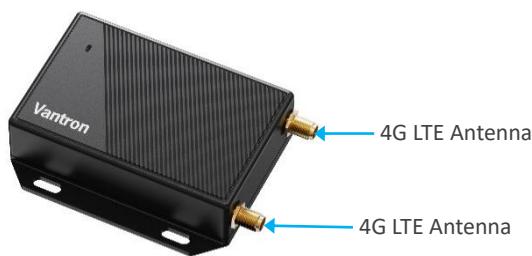
### Product Brief

VT-USB-LTE USB Dongle is equipped with the Rockchip RK3308GK quad-core ARM Cortex-A35 processor with a maximum clock speed of up to 1.2GHz, delivering low power consumption and high stability. The device comes with built-in 64MB DDR2 RAM, 32MB SPI flash memory, and 2KB EEPROM. This ensures smooth system operation but also stably stores firmware and configuration information.

The device provides an LTE Cat4 module supporting LTE-FDD and WCDMA, covering prevalent frequency bands with exceptional compatibility with a maximum downlink rate of up to 150Mbps and an uplink rate peaking at 50Mbps, meeting the demands for high-efficiency networking. Equipped with two dedicated 4G LTE antenna connectors, it significantly enhances signal reception capabilities, expands network coverage, and improves connection stability.

The device provides one USB Type-B port, supporting plug-and-play functionality for easy connection and enabling rapid networking. It features a built-in onboard Micro SIM card slot for activating 4G network connectivity. The overall design is compact and small, balancing industrial-grade stability with portability, making it suitable for various application scenarios such as industrial control and outdoor networking.

### Exteriors and Features



Rockchip RK3308GK quad-core ARM Cortex-A35 processor



64MB DDR2 + 32MB SPI flash



Low power consumption and high stability



4G LTE Cat4, 150Mbps (Downlink) + 50Mbps (Uplink)



USB Type-B, Micro SIM slot, antenna connector

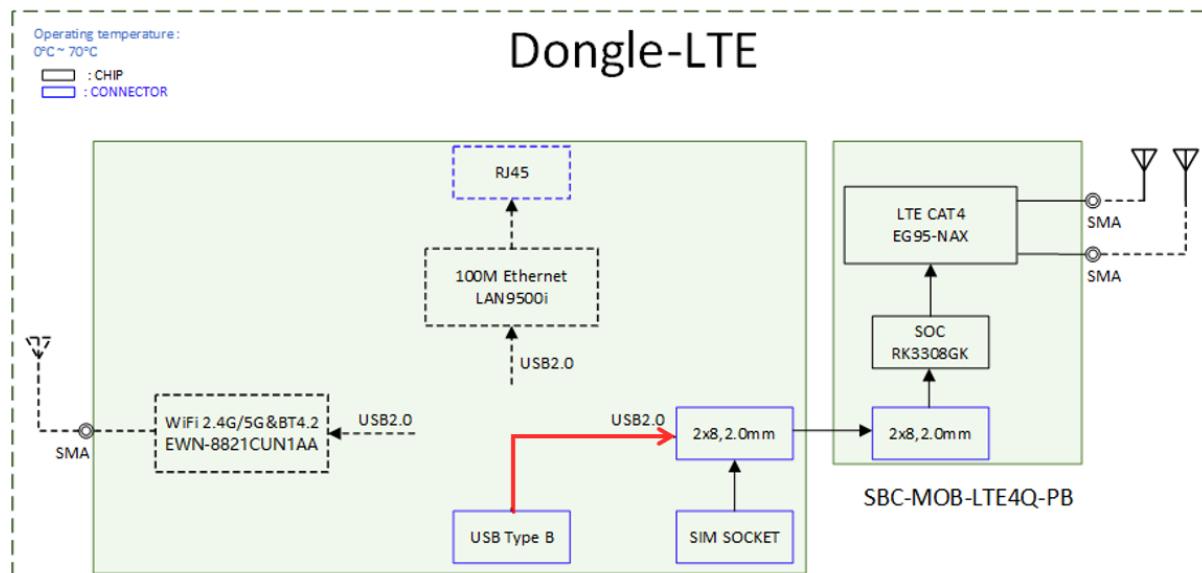


Plug-and-play functionality supported

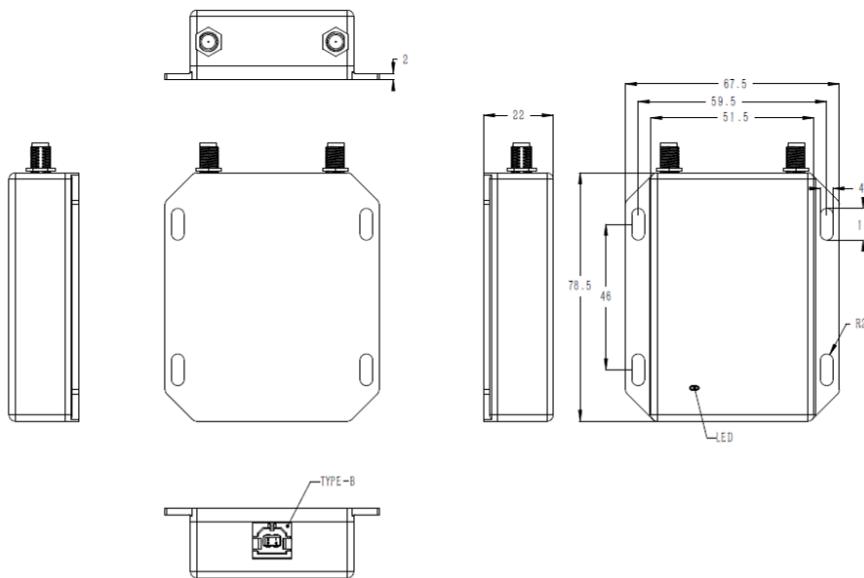
## VT-USB-CELL USB Dongle Datasheet

VT-USB-CELL		
System	CPU	Rockchip RK3308GK, quad-core ARM cortex-A35, up to 1.2GHz
	Memory	64MB DDR2
		32MB SPI Flash
Communication	EEPROM	2KB
	LTE	LTE Cat4, 150Mbps (Downlink) & 50Mbps (Uplink)
	Frequency Band	LTE-FDD: B2/4/5/12/13/25/26 WCDMA: B2/4/5
I/O	USB	1 × USB 2.0 Type-B
	Antenna	2 × 4G/LTE antenna
	SIM	1 × Micro SIM card slot
System Control	LED Indicator	1 × Power indicator
Power	Input	5V ( $\pm 5\%$ ) DC
	Consumption	$\sim 3.5W$
Mechanical	Dimensions	78.5mm × 67.5mm × 22mm
	Enclosure	Plastic
Environmental Condition	Temperature	Operating: 0°C ~ +70°C

## Block Diagram



## Product Outlines



## Ordering Information

Ordering No.	Description	I/O
VT-USB-CELL	USB Dongle	USB 2.0 Type-B, Micro SIM card slot, antenna connectors

Packing List	
VT-USB-CELL USB Dongle	1

Optional Accessories	
4G LTE antenna	2
USB Type-A-to-B cable	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 many Fortune Global 500 companies. Its product lines cover edge intelligent hardware, IoT communication devices, industrial displays, and BlueSphere cloud platforms.

With over 20 years of experience in R&D of intelligent edge hardware, Vantron has provided users with diverse embedded solutions featuring ARM and X86 architectures. Its offerings range from Linux, Android to Windows, from embedded to desktop level, and from gateways to servers. In addition, it provides users with system trimming, driver transplantation and more to cater to the unique needs of its users.