VT-MOB-LTE1T-PB

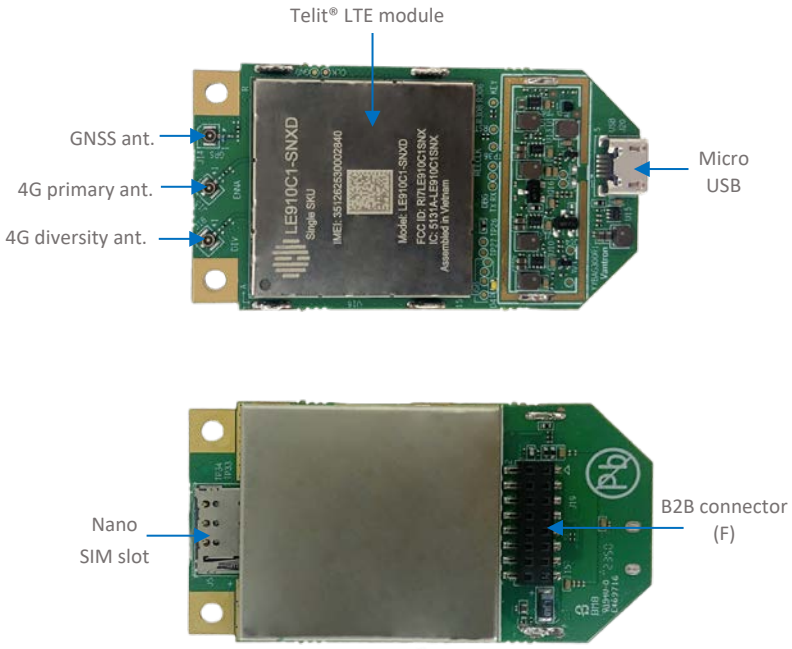
CAT 1 Cellular Card

Product Brief

Vantron VT-MOB-LTE1T-PB features an LTE CAT 1 cellular card with an integrated Nano SIM slot, offering a low-power, cost-effective solution for IoT applications. The cellular card is based on Telit LE910C1-SNXD module that supports dial-up networking to allow control through AT commands according to 3GPP standards, facilitating a rapid and straightforward onboarding process for the device. Additionally, the cellular card offers an optional quad-constellation GNSS solution for accurate positioning.

With an uplink throughput up to 5Mbps and a downlink up to 10Mbps, this CAT 1 cellular card is an ideal low-power solution for a wide range of M2M applications such as wireless point of sale systems, smart healthcare IoT, wearable devices, etc.

Exterior and Features

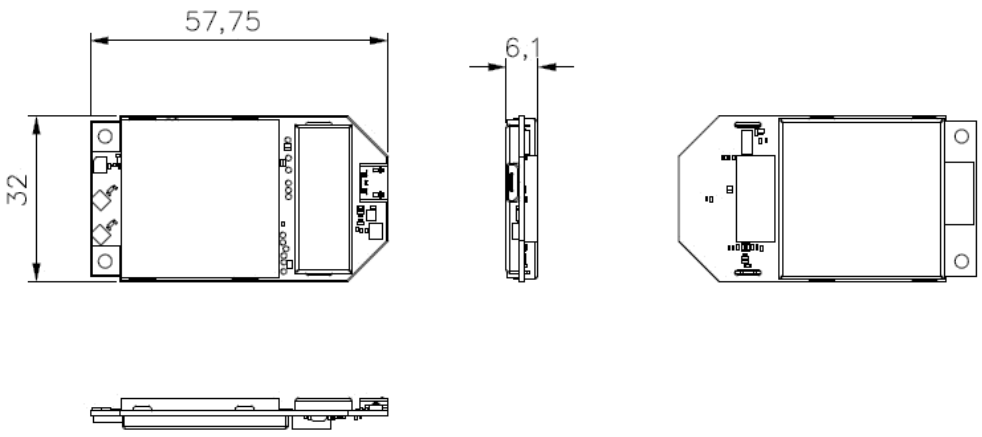


VT-MOB-LTE1T-PB
MIMO
Compact size, easy integration
Low-power, cost-effective
IPV4/IPV6 stack
Wide temperature range
On-board Nano SIM slot

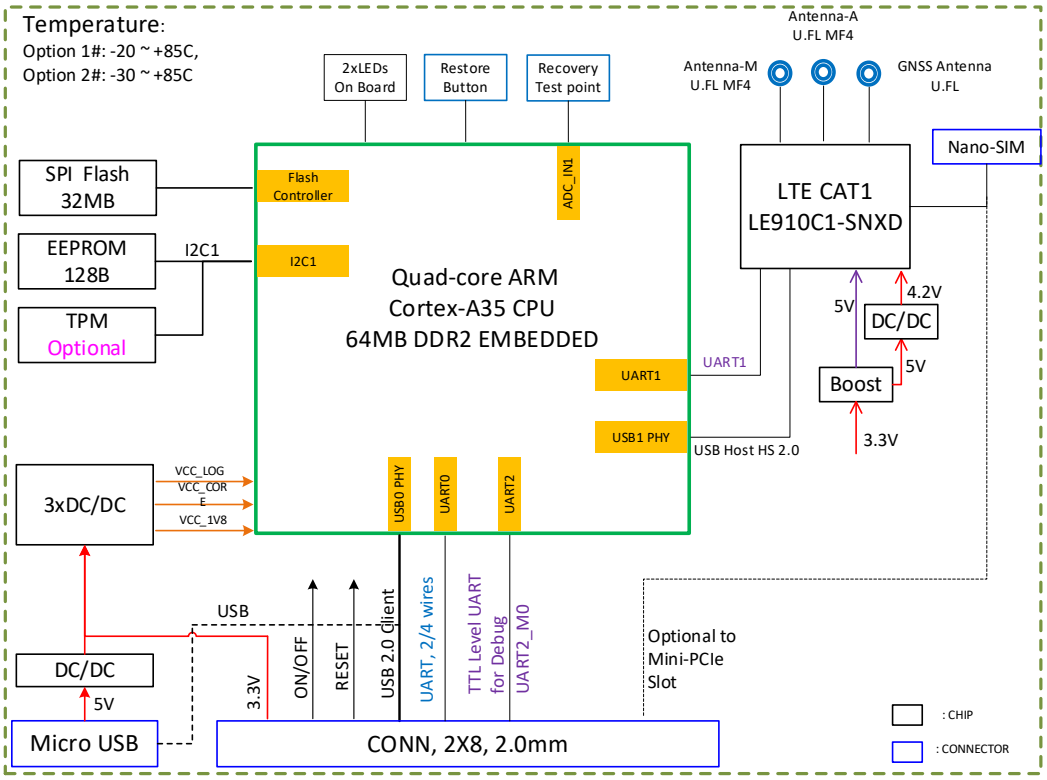
VT-MOB-LTE1T-PB CAT 1 Cellular Card Datasheet

VT-MOB-LTE1T-PB			
System	CPU	RK3308GK Quad-core ARM Cortex-A35, 1.2GHz (Max.)	
	Memory	64MB DDR2	
	Storage	32MB SPI flash for OS & program	
		2Kb EEPROM for parameters etc.	
	Software	Support drivers for Windows 7/8/8.1/10/11, Linux, Android	
	LTE category	LTE CAT 1	
	Frequency band	LTE FDD: B2/B4/B5/B12/B13/ B66	
	Max. data transmission rates	10Mbps (downlink), 5Mbps (uplink)	
	GNSS (Optional)	GPS, Glanoss, Beidou, Galileo, QZSS	
Interface	LTE Module	Telit LE910C1-SNXD	
	I/Os	2 x 4G/LTE antenna (primary & diversity)	1 x Micro USB
		1 x GNSS antenna (Optional)	1 x On-board Nano SIM slot
	Board to board connector (2 x 8 x 2.0mm)	1 x USB 2.0, 4.75V~5.25V	
		1 x UART, 3.3V	
		1 x Power on/off signal, 3.3V	
		1 x Reset signal, 3.3V	
		1 x SIM signal, 1.8V/3.3V (Optional)	
System Control	LED indicator	1 x Power indicator	1 x Working status indicator
Security	TPM (Optional)	ATMEL: ATECC508A-SSHDA-T/B	
Power	Input	5V DC via Micro USB	
	Consumption	Active mode: ~3.5W	
Mechanical	Dimensions	57.75mm x 32mm x 6.1mm	
Environment Condition	Temperature	Operating: 0°C ~ +70°C (Commercial) or -20°C ~ +85°C(Industrial)	
		(Optional: -30°C ~ +85°C)	
		Storage: -40°C ~ +105°C	
	Certificate	FCC, PTCRB	Carrier: Verizon / AT&T

Product Outlines



Block Diagram



Cellular Card Stacked with a Connector Board

Cellular card

Connector board

Stacked configuration

Company Profile

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 Fortune Global 500 companies. Its product lines cover intelligent edge 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 to Windows, from embedded level to desktop level, and from gateways to servers. In addition, it provides services such system trimming, driver transplantation and more to cater to the unique needs of its users.