Wio LTE JP Version v1.3- 4G, Cat.1, Espruino Compatible

SKU 102991024

Description

While most of smart phones are using LTE network now, how about giving LTE capability to your IoT project with the latest released Wio LTE board. The Wio LTE is an Arduino and Grove compatible development board with also the ability of accessing LTE network. The LTE network provides a wide bandwidth which allows much faster interaction between user and device. The Arduino and Grove compatibility allows for quicker development through numerous libraries and a supportive community. In addition to C/C++, the Wio LTE also support programming in Espruino, a simplified JavaScript language that lower the entrance difficulty in play with the board.

We have some improvements of v1.3, but all functions is still compatible with old version.

Optimized circuit:
1. Using new PMIC MP2617
2. Improve the charging circuit of LTE module

Battery LED indicator:
1. If charging, LED on.
2. If charging complete, LED off.
3. If blinking, BAT Error which means battery error or unplug the battery.

Note
- When the signal is not good, there will be noise while calling.
- We have developed 4 different versions of Wio LTE for different regions. This is the Wio LTE JP version, except this version, the others also support GNSS, below table shows the difference between each version. For more detail information, please refer to the manual.

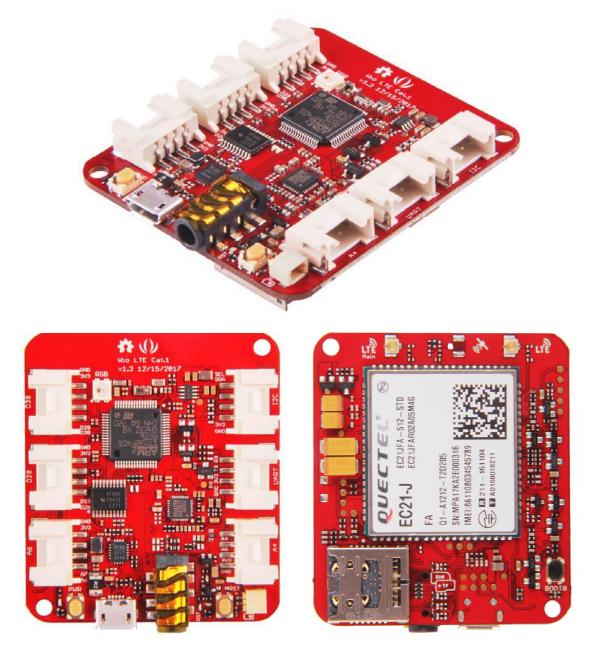| Versions	LTE Bands	3G Bands	GSM	GNSS
US	FDD: B2/B4/B12	WCDMA: B2/B4/B5	/	GPS/GLONASS/Beidou/Compass/Galileo/GZSS
EU	FDD: B1/B3/B5/B7/B8/B20	WCDMA: B1/B5/B8	900/1800	GPS/GLONASS/Beidou/Compass/Galileo/GZSS
AU	FDD: B1/B2/B3/B4/B5/B7/B8/B28	WCDMA: B1/B2/B5/B8	850/900/1800/1900	GPS/GLONASS/Beidou/Compass/Galileo/GZSS
JP	FDD: B1/B3/B8/B18/B19/B26	/	/	/

Technical Details

Dimensions	0mm x 0mm x 0mm
Weight	G.W 70g
Battery	Exclude

Part List

Wio LTE JP Version v1.3	1
Antenna	2
USB Cable	1

Sub-System	Function	Detail
Microcontroller	Processor	STM32F405RG，ARM Cortex-M4, CPU running up to 168MHZ
	Flash	1MB
	RAM	192+4KB
	Operating Voltage	3.3V
	Low Power	Sleep, Stop, Standby modes
	DC Current per I/O Pin	7 mA
LTE	LTE Cat.1	FDD: B1/B3/B8/B18/B19/B26
		AT Command: 3GPP TS27.007 and enhanced AT Commands
	Data	LTE-FDD Max 10Mbps(DL) Max 5Mbps (UL)
		Protocol: TCP/UDP/PPP/FTP/HTTP/SSL
	SMS	Peer to Peer Message, SMS broadcast, Text and PDU mode
	Audio	Echo cancellation; Noise elimination
Peripheral	Grove	2 x Grove Digital Port
		2 x Analog Port
		1 x UART
		1 x I2C
	Antenna	2 x LTE Antenna
	Others	USB: Power supply and upload program
		JST 1.0 connecter for battery
		3.5mm Audio Jack
		MCU Reset Button, EC21 Power Button
		1 x User RGB LED SK6812
		Nano SIM and TF card 2 in 1 socket

https://www.seeedstudio.com/Wio-LTE-JP-Version-v1-3-4G-Cat-1-Espruino-Compatible-p-3044.html 8-21-18