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TRITOM LE910C1 USB CAT1 IoT Dongle Modem for IoT-Connectivity

Note: This device is for PoC stage use only

The LE910C1 is optimized for LTE low category networks and are available in single mode and 3G/2G fallback options.

4G-LTE CAT 1

USB for data and power

Configured using AT commands

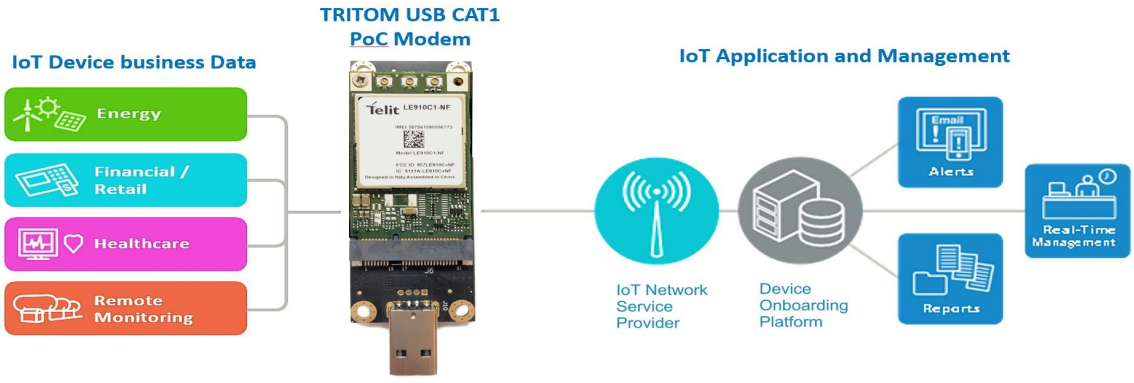
Integrated TCP/IP and UDP/IP stacks

SSL/TLS support

Antenna and SIM included

PTCRB and T-Mobile bands supported

Tri Cascade Inc. TRITOM LE910C1 USB CAT1 Dongle Modem is a quick development PoC kit for IoT customer easily experience how to operational the IoT LTE/CAT1 network, it provides cellular capabilities for fixed and mobile applications. There is a high-performance CAT1 module with low power consumption on the USB dongle modem. It is designed to communicate with infrastructures of mobile network operators through LTE radio protocols (3GPP Rel.13 and 3GPP Rel.14.). The TRITOM LE910C1 is intended for use in settings such as vending, smart parking, medical, smart inventory tracking equipment and other commercial applications.



IoT Connectivity Ready

the LE910C1 is capable of supporting the extensive suite of Value-Added Services from IoT Connectivity including Module Management and others which make the management of IoT deployments under mobile networks effective, enhancing profitability and reliability. It is also Portal-ready which means that the AT command library in this module includes a set of high-level commands.

Key Benefits

Product designed for quick and hassle-free on-boarding

- Standard Mini PCIe Data-card form factor to USB
- Best-in class 3GPP rel10 platform
- Easy to integrate with peripherals and actuators using USB 2.0 HS, UART and user definable GPIOs
- Battery-friendly 1.8V GPIO
- Ideal platform for IoT applications and mobile data and computing devices with ultra-compact design and extended operating temperature range
- Internet friendly with integrated TCP/IP and UDP/IP stacks,
- Simple drop-in migration and technology design reuse path to 2G and 3G with any xE910 module
- Over-the-Air firmware update

Model	LE910C1	
Performance	LTE FDD Cat.1	LTE FDD Cat.4
3GPP	Release 10	Release 10
4G Bands (MHz)	B12, B14, B4, B2 B5, B13, B66, B71	
3G Bands (MHz)	B2,B4, B5	
Data	Uplink up to 5 Mbps, Downlink up to 10 Mbps	
Diversity /MIMO	Rx Diversity and MIMO DL 2x2	
Connectors		
SIM	Support SIM 6pin/8pin card connector (SIM pocket: standard 1FF)	
USB	Type A	
Power Requirement		
Voltage	USB powered – 5V (No additional power required)	
Antenna		
TG.55.8113W MIMO	Covering Sub 6GHz 5GNR Bands	
	600MHz-6GHz Bandwidth (new 600MHz band 71)	
	High Efficiency up to 80%	
	3G/2G Fallback	
	90 degree Hinged Right Angle SMA (M) Connector	
	Straight Dimensions: 172 x 23.9 x 13 mm	
	Right Angle Dimensions: 148 x 42.4 x 13 mm	
	RoHS & REACH Compliant	
Demension		
L*W	85*31 mm	
Environmntal		
Operating Temperature	-40°F to +176°F	
Storage Temperature	-40° to +185°F (-40°C to +85°C)	
Certifications		
LTE CAT1 module	FCC /IC, PTCRB (T-Mobile) , UL60950-1	

LE910C1 is using Taoglas TG.55.8113W a 5G/4G terminal mount monopole antenna, designed primarily for use with 5G/4G modules and devices that require high efficiency and peak gain to deliver best in class throughput on all major cellular bands worldwide for access points, terminals, and routers. The TG.55 covers many 5G NR Sub 6GHz bands and the antenna including the new Extended LTE Band 71, many 5G NR Sub 6GHz bands and the antenna has an SMA (M) connector as standard, including the new 600MHz band 71.

The TG.55 exhibits an efficiency of up to 80% across wideband 5G/4G bands and is backwards compatible with 3G/2G cellular applications. It is an ideal solution for any device requiring high, reliable performance but in a slim form factor. It is also guaranteed to meet any type of approval or carrier certification requirements from an RF standpoint.


antenna color: black or white

The TG.55 is a fully omnidirectional antenna as seen in the radiation patterns and is stable across all bands. The SMA (M) connector hinge mechanism allows the antenna to be rotated into the preferred orientation which helps to avoid other antennas or objects. This also helps with isolation by pointing the antennas in different directions when used in MIMO systems or when other antennas are present on the same device. The antenna blade can swivel 90 degree from the connector accommodating different installation

Tri Cascade® Inc
Taking Internet of Things Further

Authorized IoT Service Provider

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