



L710GM

IoT Module

L710GM is an IoT module with small packaging and excellent reliability, supporting LTE CAT-M1 and CAT-NB1/NB2.

The size of L710GM is extremely small and only 21.5 * 25.0 * 2.4mm with LCC package, which make customers to design conveniently and flexibly. The module has wide voltage range, low current consumption and rich external interfaces, widely used for various products and equipment of IoT



CATM1



NB-IoT



Temperature
-40°C to +85°C



AT Command



Low Power
Consumption



LCC



USB2.0



FOTA



Main Features

- Frequency Bands:
L710GM:
LTE CatM1&NB2: B2/4/5/12/13/26
- RF Power Class: PC 5
- Support AT Command
- Operating Temperature range: -40°C ~ +85°C
- Storage Temperature range: -45°C ~ +90°C
- Voltage Range: 3.4 ~ 4.2V (Typ. 3.8V)
- Dimensions: 21.5*25.0*2.4mm
- Packaging: LCC
- Weight: About 1.5g

Specification of Data Transfer

- LTE
Rel.14 CatM1(with larger UL TBS)
Max. DL 588Kbps, UL 1119Kbps
LTE Rel.14 CatNB1
200kHz monitor BW
Max. 34/19.7 Kbps DL/single-tone UL,
Max. 34/66.6 Kbps DL/multi-tone UL
LTE Rel.14 CatNB2
200kHz monitor BW
Max. 127/158.5 Kbps DL/UL

Chipset information

- Main Chipset: Qualcomm MDM9205
- RF Chipset: Qualcomm SDR105

Interfaces

- UART
- SIM card(1.8V)
- I2C
- SPI
- I2S
- ADC
- USB2.0
- GPIO
- Main Antenna
- Netlight
- Powerkey

Other features

- Update firmware by USB
- TCP/UDP/HTTP/FTP/SMTP/SSL
- MQTT/CoAP
- FOTA

Certification

- FCC/CE/RoHS/PTCRB/GCF/AT&T/*VERIZON

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Exposure to Radio Frequency Radiation. This equipment must be installed and operated in accordance with provided instructions, and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

This Modular Approval is limited to OEM installation for mobile and fixed applications only. The antenna installation and operating configurations of this Modular, including any applicable source based time averaging duty factor, antenna gain and cable loss must satisfy MPE categorical Exclusion

Requirements of 2.1091.

if the host is marketed so that end users do not have straight forward commonly used methods for access

to remove the module so that the FCC ID of the module is visible; then an additional permanent label referring to the enclosed module: Contains Transmitter Module FCC ID: 2AK9D-L710GM or Contains FCC ID: 2AK9D-L710GM must be used.

Please update the IC warning as following:

The following IC Warning

This device complies with Industry Canada RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme aux normes RSS d'Industrie Canada. Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférences et (2) cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

Exposure to Radio Frequency Radiation. This equipment must be installed and operated in accordance with provided instructions, and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

Exposition aux rayonnements de radiofréquence. Cet équipement doit être installé et utilisé conformément aux instructions fournies, et la ou les antennes utilisées pour cet émetteur doivent être installées pour fournir une distance de séparation d'au moins 20 cm de toutes les personnes et ne doivent pas être colocalisées ou fonctionner en conjonction avec autre antenne ou émetteur. Les utilisateurs finaux et les installateurs doivent recevoir les instructions d'installation de l'antenne et les conditions de fonctionnement de l'émetteur pour satisfaire à la conformité d'exposition RF.

This Modular Approval is limited to OEM installation for mobile and fixed applications only. The antenna installation and operating configurations of this Modular, including any applicable source-based time averaging duty factor, antenna gain and cable loss must satisfy MPE categorical Exclusion Requirements of RSS 102. Cette approbation modulaire est limitée à l'installation OEM pour les applications mobiles et fixes uniquement. L'installation de l'antenne et les configurations de fonctionnement de ce modulaire, y compris tout facteur d'utilisation moyen basé sur la source, le gain d'antenne et la perte de câble doivent satisfaire aux exigences d'exclusion catégorielles MPE de RSS 102.

If the IC number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains IC: 24342-L710G"

Si le numéro IC n'est pas visible lorsque le module est installé à l'intérieur d'un autre appareil, l'extérieur de l'appareil dans lequel le module est installé doit également afficher une étiquette faisant référence au module fourni. Cette étiquette extérieure peut utiliser une formulation telle que la suivante: "Contient IC: 24342-L710G"