 **PUSR®**
XQ200U LTE Cat 1
Communication
Module



PUSR XQ200U LTE Cat 1 Communication Module Instruction Manual

[Home](#) » [PUSR](#) » PUSR XQ200U LTE Cat 1 Communication Module Instruction Manual 

Contents

- [1 PUSR XQ200U LTE Cat 1 Communication Module](#)
- [2 Product Specifications](#)
- [3 Product Usage Instructions](#)
- [4 FAQ](#)
- [5 Product introduction](#)
- [6 Function](#)
- [7 The interface is the INTERFACE](#)
- [8 Performance](#)
- [9 General characteristics](#)
- [10 FCC STATEMENT](#)
- [11 Documents / Resources](#)
 - [11.1 References](#)



PUSR XQ200U LTE Cat 1 Communication Module



Product Specifications

- LTE Cat 1 module designed for M2M and IoT applications
- Supports LTE-FDD, LTE-TDD network data connection
- Package size: 28.0*31.0*2.4mm
- Supports LTE Cat 1 / GPRS
- Ultra-thin LGA packaging
- Baseband chip integrated RAM and flash
- Supports FOTA (Firmware Over-the-Air)
- Supports LTE Cat1 power consumption
- Complies with 3GPP standards
- FCC Part 15 compliant

Product Usage Instructions

- The XQ200U module can be used in various applications such as automation, intelligent metering, tracking systems, security systems, routers, wireless POS machines, and more.
- The module supports different frequency bands for different regions, ensuring compatibility with network providers in Latin America and Eurasian countries.
- The module comes with an LTE antenna and supports SIM cards (1.8V / 3.0V USIM / SIM card) with eSIM capability.
- The module supports Delta Firmware Upgrade Over-the-Air for easy firmware updates.
- Ensure a minimum distance of 20cm between the module and your body to comply with FCC radiation exposure limits.

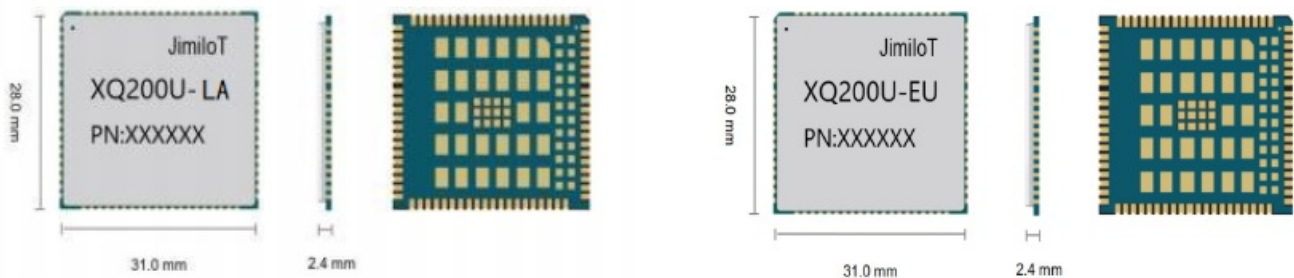
FAQ

- **Q:** What are the primary applications of the XQ200U module?
- **A:** The XQ200U module is designed for M2M and IoT applications such as automation, intelligent metering, tracking systems, security systems, routers, wireless POS machines, and more.
- **Q:** How can I update the firmware of the XQ200U module?

- **A:** The module supports Delta Firmware Upgrade Over-the-Air, allowing you to easily update the firmware wirelessly.
- **Q:** What are the network compatibility options for the XQ200U module?
- **A:** The module supports different frequency bands for Latin America (XQ200U_LA) and Eurasian (XQ200U_EU) regions to ensure network compatibility.

XQ200U Communication module

- LTE Cat 1 module
- Designed specifically for both the M2M and IoT applications



Product introduction

XQ200U is an LTE Cat1 and GSM wireless communication module developed based on 8910DM, using 3GPP Rel. 13 LTE technology, supports LTE-FDD, LTE-TDD network data connection, super high cost performance. This module implements the remote EC 200U full pin-to-pin design; the XQ200U series contains two versions of XQ200U_LA and XQ 200 – EU.

XQ 200U The module package is consistent with the EC200U, and the package size is 28.0*31.0*2.4mm. It can meet almost all M2M application needs, such as automation, intelligent metering, tracking systems, security systems, routers, wireless POS machines, mobile computing devices, PDA phones, and tablet computers.

Function

- Functional Overview
- Support for LTE Cat 1 / GPRS;
- Ultra-thin LGA packaging;
- Baseband chip integrated RAM and flash;
- Support for FOTA;

Communication characteristics

The frequency band

The 2 + 4G is divided into two versions, and the frequency band planning is shown as follows:

Latin America XQ 200U LA GSM: B 2 / B 5; FDD: B 2 / B 4 / B 5 / B 7 Eurasian XQ 200U_EU GSM: B 2 / B 3 / B 5 / B 8; FDD: B 1 / B 3 / B 5 / B 7 / B 8 / B 20 / B 28; TDD: B38 / B40 / B41

The LTE feature

1. LTE Rate (Mbps) LTE-FDD: Max 0 (DL) / Max.5(UL) ; LTE -TDD: Max .7.88(DL)/Max .3(UL)

The GSM features

GPRS

- Support GPRS multi-slot class 12
- Coding scheme: CS -1, CS -2, CS -3 and CS -4
- Max. 80Kbps (DL), Max. 80Kbps (UL)

EDGE

- Support EDGE multi-slot class 12
- Support GMSK and 8-PSK for different MCS (Modulation and Coding Scheme)
- Downlink coding schemes: MCS 1-9
- Uplink coding schemes: MCS 1-9
- Max . 236. 8Kbps (DL), Max . 236. 8Kbps (UL)

Call

GS M

- CSV oice

SMS

- Point-to-point MO and MT :
- SMS Cell Broadcast :
- Text and PDU Mode

The interface is the INTERFACE

and the general interface

- Power supply
- (U) The SIM interface
- The USB interface
- The UART interface
- The I2C interface
- The SPI interface
- Vacation audio interface
- The ADC interface
- LCD
- Admito matrix keyboard
- SD block
- RESET _in

Antenna

- LTE antenna

SIM

- Supports a 1.8V / 3.0V USIM / SIM card
- Support for eSIM, place-in (soft SIM)

Firmware Upgrade

- USB interface ;

OTA

- Delta
- Firmware
- Upgrade Over-the-Air;

Performance

LTE Cat1 of power consumption

- Class 3 (23 dBm \pm 2dB), the LTE-FDD frequency band
- Class 3 (23 dBm \pm 2dB), LTE-TDD frequency band;

General characteristics

The GPP standard

- 3GPP TS 27. 007, 27. 005 for the defined command temperature
- storage temperature: -40° C ~ +85° C;
- working temperature: -35° C ~ +75° C;

Appearance

- size 28. 0mm X 31.0mm X 2. 4mm;
- weight About 4.1g:
- package L CC

FCC STATEMENT

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.

FCC regulatory compliance statement

Statement

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.

Information to user

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

List of applicable FCC rules

- 47 CFR Part 22, 24, 27

Summarize the specific operational use conditions

- This module can be used in IOT devices, the input voltage to the module is nominally 4V.

Limited module procedures

- This module is a single module.

Trace antenna designs

- The antenna is not a trace antenna.

RF exposure considerations

This Module complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Antennas

If you desire to increase antenna gain and either change antenna type or use the same antenna type certified, a Class II permissive change application is required to be filed by us, or you (host manufacturer) can take responsibility through the change in FCC ID (new application) procedure followed by a Class II permissive change application.

Label and compliance information

Please notice that if the FCC identification 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 FCC ID: 2AMLF-XQ200U-LA" Any similar wording that expresses the same meaning may be used.

- Labelling requirements shall be complied on end-user devices. Labeling rules for special devices, please refer to §2.925, § 15.19 (a)(5), and relevant KDB publications. For E-label, please refer to §2.935.

Information on test modes and additional testing requirements

- The OEM integrator is responsible for ensuring that the end-user has no manual instruction to remove or install the module.
- The module is limited to installation in mobile applications, a separate approval is required for all other operating configurations, including portable configurations concerning §2.1093 and difference antenna configurations.

FCC other Parts, Part 15B Compliance Requirements for Host Product Manufacturer

This modular transmitter is only FCC-authorized for the specific rule parts listed on our grant, host product manufacturer is responsible for compliance with any other FCC rules that apply to the host not covered by the modular transmitter grant of certification. Host manufacturer in any case shall ensure host product which is installed and operating with the module is in compliant with Part 15B requirements.

Please note that For a Class B or Class A digital device or peripheral, the instructions furnished in the user manual of the end-user product shall include the statement set out in §15.105 Information to the user or such similar statement and place it in a prominent location in the text of host product manual. Original texts are as follows:

For Class B

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, according 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 under the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Suppose this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on. In that case, 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 the receiver.
- Connect the equipment to 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.

For Class A

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, according to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used under the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Documents / Resources

	<p>PUSR XQ200U LTE Cat 1 Communication Module [pdf] Instruction Manual XQ200U-LA, XQ200U-EU, XQ200U LTE Cat 1 Communication Module, XQ200U, LTE Cat 1 Communication Module, Communication Module, Module</p>
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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