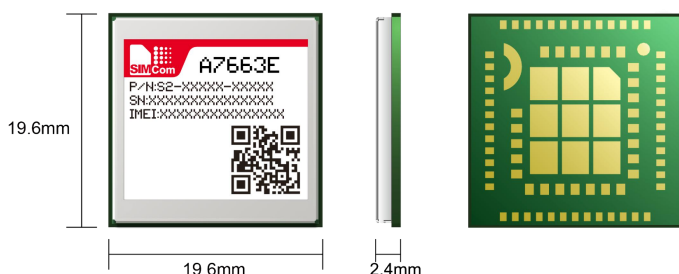


V: 2024.02

A7663E

SIMCom LTE Cat 1 Module

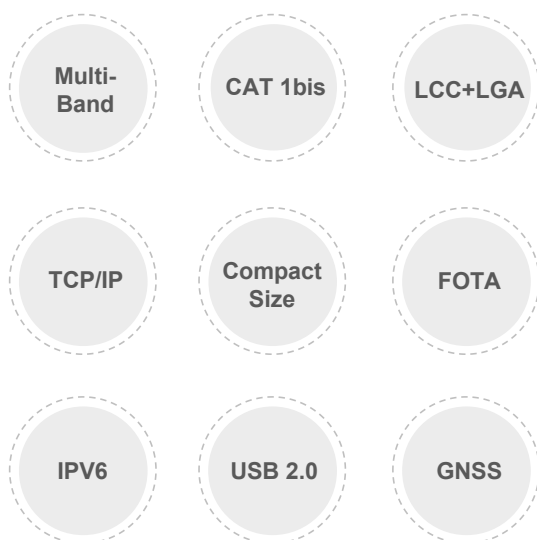


Product Description

A7663E is the LTE Cat 1 module that supports wireless communication modes of LTE-FDD. It supports maximum 10Mbps downlink rate and 5Mbps uplink rate.

A7663E adopts LCC+LGA form factor and is compatible with A7682E, A7683E and SIM868series (GSM/GPRS modules), which enables smooth migration from 2G products to LTE products, and greatly facilitates more compatible product design for the customer needs.

A7663E supports multiple built-in network protocols, supports drivers for main operation systems (USB driver for Windows, Linux and Android etc.) and software function. AT commands are compatible with the A7682E, A7683E and SIM868series modules. A7663E also integrates multi GNSS receiver. Meanwhile A7663E integrates main industrial standard interfaces, with powerful expansibility, including abundant interfaces such as UART, USB, I2C, GPIO, which is suitable for main IOT applications such as telematics, surveillance devices, industrial routers, and remote diagnostics etc.



Key Benefits

- ◆ LCC+LGA form factor with abundant interfaces
- ◆ Suitable for LTE networks and integrated GNSS
- ◆ Abundant software functions: FOTA, SSL, LBS*
- ◆ Compatible with the A7682E, A7683E series modules

General Features

Frequency Bands	LTE-FDD B1/B3/B5/B7/B8/B20/B28
Supply Voltage	3.4V ~ 4.2V, Typ: 3.8V
Control Via AT Commands	
Normal Operation Temperature	-30°C ~ +75°C
Extended Operation Temperature	-40°C ~ +85°C
Dimensions	19.6*19.6*2.4mm
Weight	2.5g±0.1

Data Transfer

LTE Cat 1	Uplink up to 5Mbps
	Downlink up to 10Mbps

Other Features

USB Driver for Microsoft Windows 7/8/10
USB Driver for Linux /Android
RIL supporting for Android 5.0/6.0/7.0/8.0/9.0
Firmware update via USB/FOTA
TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/HTTP/HTTPS/DNS
RNDIS/PPP/ECM
VoLTE/SMS
SSL
Multi-GNSS receiver: GPS/GLONASS/BeiDou

Interfaces

USB2.0
UART
(U)SIM card(1.8V/3V)
Analog audio
ADC
I2C
GPIO
Antenna: Primary/GNSS

Certifications

CE#/RoHS#/REACH#

Note

*: optional
#: developing/on-going/planning