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A7682E
LTE Cat1 Module

A7682E is the LTE Cat 1 module that supports wireless communication modes of LTE-FDD/GSM/GPRS/EDGE. It supports maximum 10Mbps downlink rate and 5Mbps uplink rate. A7682E adopts LCC+LGA form factor and is compatible with SIM800C, 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.

A7682E 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 SIM800 series modules. Meanwhile A7682E 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.

Product Overview

General Features

Frequency bands: LTE-FDD B1/B3/B5/B7/B8/B20
GSM/GPRS/EDGE 900/1800MHz

Control Via AT Commands

Supply voltage range: 3.4V ~ 4.2V, Typ: 3.8V

Operation temperature: -40℃ to +85℃

Dimensions: 19.6 x 19.6 x 2.5mm

Weight: 1.9g±0.1g

Other Features

USB Driver for Microsoft Windows 7/8/10

USB Driver for Linux/Android

RIL support for Android 5.0?6.0/7.0/8.0/9.0

Firmware update via USB/FOTA

TCP/IP/IPV4/IPV6/Multi-PDP/FTP/HTTP/DNS

RNDIS/PPP/ECM

MQTT/MQTTS

SMS

SSL

Data Transfer

LTE Cat1: Uplink upt to 5 Mbps; Downlink up to 10 Mbps

EDGE: Uplink/Donwlink up to 236.8Kbps

GPRS: Uplink/Downlink up to 85.6Kbps

Interfaces

USB2.0

UART

(U)SIM card (1.8V/3V)

Analog audio

ADC

I2C

GPIO

Antenna: Primary

Certifications

CE/RoHS/REACH