

Introduction

SIM7600G-H 4G (LTE) is an Arduino Shield that supports 2G/3G/4G, GNSS satellite positioning, and LTE CAT4 (150Mbps DL, 50Mbps UL). It features a standard Arduino pinout and is compatible with Arduino UNO, Leonardo, Mega, and other main controllers. It supports LTE-TDD/LTE-FDD/WCDMA/GSM frequency bands, GNSS positioning with GPS, CLONASS, BD, and other satellite systems, and includes multiple network protocols for global compatibility. This expansion board enables effortless high-speed internet access, wireless communication, audio recording/playback, telephone messaging, and global positioning functionalities.

Explanation: The SIM7600CE-T 4G (LTE) Arduino expansion board and the SIM7600G-H CAT4 4G Shield have only one difference—the module used. However, they both support the same frequency bands and GNSS positioning functionalities.

Features

- Controlled through AT commands

- Supports GNSS satellite positioning (GPS, CLONASS, BD)

- Supports multiple frequency bands: LTE-FDD/LTE-TDD/WCDMA/GSM

- SMS support for MT, MO, CB, Text, and PDU modes

- Supports various network protocols:

 - TCP/IP/IPV4/Multi-PDP/FTP/FTPS/HTTP/HTTPS/DNS

- Enables dial-up networking, telephone, messaging, TCP, HTTP, and other functionalities

- Features two LED status displays: power supply status and network status

Applications

- Ideal for hobbyists for 4G communication learning and project development

- Suitable for outdoor high-rate communication and positioning

- Can be used for mobile tracking

- Great for logistics tracking

- Enables remote monitoring

Specification

- Operating voltage: DC 5V

Supported network frequency bands:

LTE-TDD: B34/B38/B39/B40/B41

LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66

UMTS/HSDPA/HSPA+: B1/B2/B4/B5/B6/B8/B19

GSM/GPRS/EDGE: 850/900/1800/1900 MHz

4G communication rate: CAT4 (uplink speed of 50Mbps, downlink speed of 150Mbps)

GNSS satellite navigation technology (GPS, BD, GLONASS)

Operating environment: -40°C to 85°C

Dimensions: 69×54mm

Documents

[SIM7600CE-T 4G\(LTE\) Shield V1.0 Product wiki](#)

[SIM7600G-H CAT4 4G Shield Product wiki](#)

Shipping List

SIM7600G-H CAT4 4G (LTE) Shield x1

4G TEL, GPS antenna pack x1

Triple-cut universal SIM card adapter x1