Sim7600g Breakout Board,Mini Sim7600g-h Cat 4 Kits With Gps 4g Antenna

high-speed 4G connectivity and GPS functionality

Sim7600g Breakout Board,Mini Sim7600g-h Cat4 Kits With Gps 4g Antenna

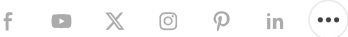|	
Price:	29-31USD/PC
Model:	BK-SIM7600G-H
Brand Name:	SIMCOM
Place Of Origin:	China
Payments:	L/C,D/A,D/P,T/T,Western Union,MoneyGram,OA
MOQ:	1000
Lead Time:	1-50(pieces):4(days),>50(pieces):To be negotiated(days)
Shipping:	Support Sea freight
Model Number:	BK-SIM7600G-H

UMTS/HSPA+	B1/B2/B4/B5/B6/B8/B19
LTE-TDD	B34/B38/B39/B40/B41
Chipset	SIM7600G-H
Supplier Type	4G

Type	4G
Place Of Origin	Guangdong, China
Application	4G

How to Place an Order and Request a Quote

Send files or Production links

Submit your Gerber files, BOM (Bill of Materials), and any project-specific requirements to us.

Technical Review

Our engineering team will review your files and verify technical specifications

Receive Quote

Get a detailed quote including pricing, lead time, and shipping options.

Confirm Order

Review and confirm your order details, then proceed with payment to start production.

SIM7600X

The SIM7600G is Multi-Band LTE-FDD/LTE-TDD/HSPA+ and GSM/GPRS/EDGE module solution in a SMT type which supports LTE CAT1 up to 10Mbps data transfer.

It has strong extension capability with rich interfaces including UART,USB2.0, GPIO etc. The module provides much flexibility and ease of integration for customer's application.

The package of SIM7600G is LCC+LGA. The package (LCC part) of SIM7600G is compatible with SIM7600x (LTE CAT-1 Variants module with LCC package). AT commands of SIM7600G are mostly compatible with SIM7500/SIM7600 Series modules. This also minmize the investments of customers, and enables a short time-to-market.

The SIM7600-H series is the LTE Cat 4 module which supports wireless communication modes of LTE-TDD/ LTE-FDD/HSPA+/GSM/GPRS/EDGE etc. It supports maximum 150Mbps downlink rate and 50Mbps uplink rate.

The SIM7600-H series adopts LCC1 form factor and is compatible with SIM5320/SIM5360 series(UMTS/HSPA+ modules), and SIM7600 series(LTE modules), which enables smooth migration from 3G products to LTE products, and greatly facilitates more compatible product design for the customer needs.

The SIM7600G-H series integrates multiple satellite high accuracy positioning GNSS systems, with 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 SIM7500/SIM7600 series modules. Meanwhile the SIM7600G-H series 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, CPE, industrial routers, and remote diagnostics etc.

Which is better 4G or LTE?
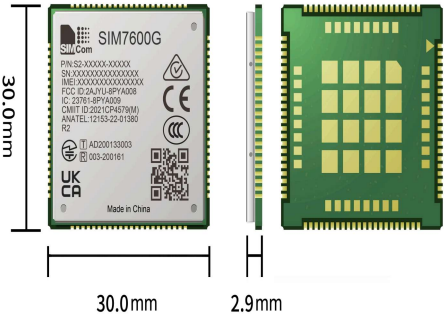
4G is significantly faster. LTE offers only 100 Mbps, while true 4G offers up to 1,000 Mbps. However, if we take a look at the LTE-A speeds, the difference disappears as it also offers 1,000 Mbps. As a result, there is no clear answer as it depends on which technology you are using, LTE or LTE-A.

What is the current consumption of SIM7600?

SIMCOM SIM7600 GSM/GRPS/GPS/Bluetooth Modules will consume a peak current of 2A when communicating with the network.

What is the difference between GSM and LTE modems?

LTE and high-speed data transmission go hand in hand. LTE supports only data transmission, whereas GSM supports both data and voice. People have a tendency to trust LTE when they need highspeed Internet, but they tend to trust GSM when they primarily need to make phone call.

How to use SIM7600G Breakout kit/SIM7600G-H Breakout kit?

Welcome to contact with us, we guide and send you documents soon.
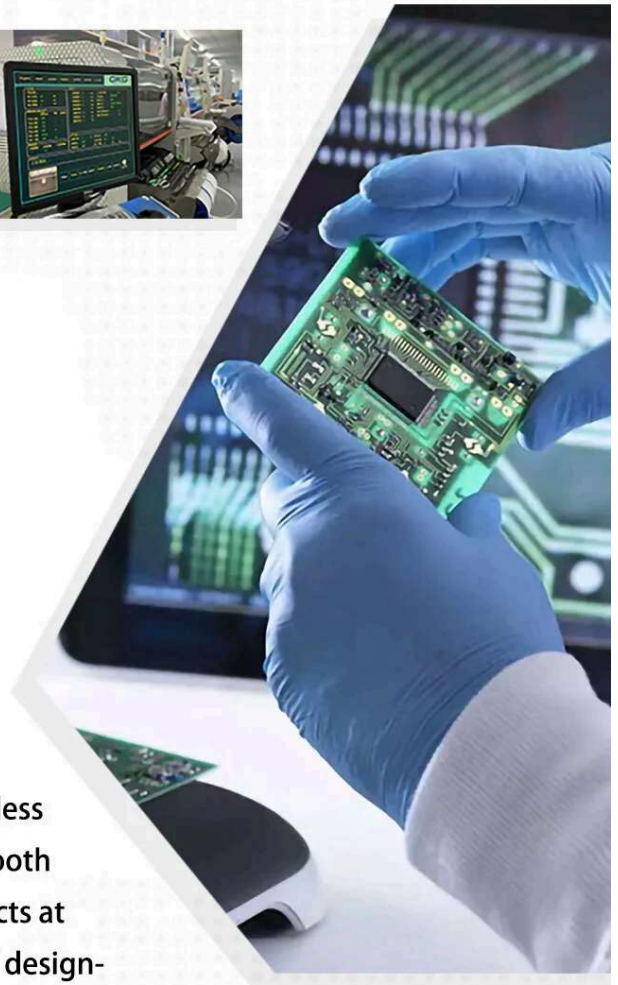
ABOUT US
AND TECHNOLOGIES

We offer a full range of design services from electronics design, PCB Layout and contract software to firmware development. We can provide one-stop solution to meet your electronic product requirement, including schematics design, PCB layout, SMT, assembly and software development.

We are specialized in developing and manufacturing wireless products, including GSM/GPRS, GPS, WIFI products, Bluetooth products and 4G modules. We provide high quality products at competitive prices. Our core team consists of experienced designers and some of them have PhD degrees.

Welcome To ANDTech(and-global)

where you will find IOT & 4G wireless devices offered at incredible prices.
A quick look around our site will reveal our massive range of fashion mobile broadband, such as 4G USB Modem, 4G Wireless Router,4G breakout kit and M2M module.

1

Production Description
Breakout SIM7600 User Manual

1. Preparation:

Board	BK-SIM7600
Serial tool	sscom32E.exe
Package list	1Pcs

2

2. Overview

2.1 Module feature

☒SIM7600X-H is a complete multi-band LTE-FDD/LTE-TDD/HSPA+/UMTS/EDGE/G-PRS/GSM module solution in LCC type which supports LTE CAT4 up to 150Mbps for down-link and 50Mbps for uplink data transfer.
☒Stand-alone GPS
☒Control Via AT Command, Rich interfaces including UART,USB2.0
☒Supply voltage range:3.4v~4.2v, Typ:3.8V
☒Dimension: 30x30x2.9mm
☒Operation temperature:-40℃ to +85 ℃

2.3 PCBA dimension: 40*40mm.

2.2 BOARD overview
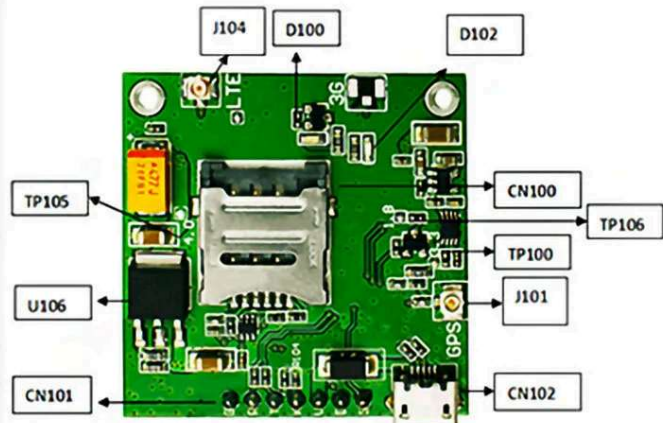
CN100	Micro SIM card socket
CN101	7pin 2.54mm header interface
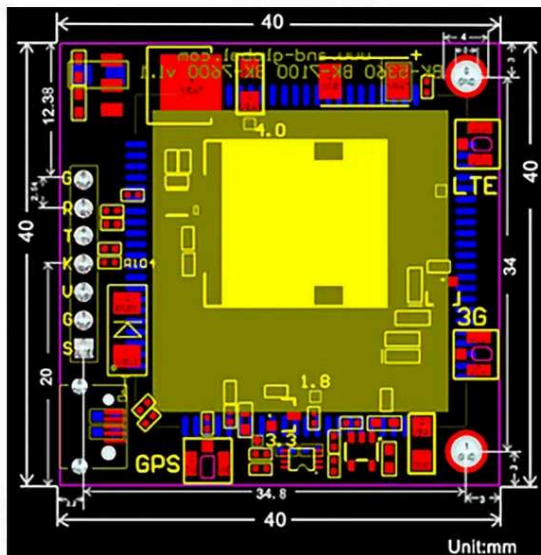
CN102	USB interface
D102	Power indicator(RED)
D100	NET LIGHT indicator(Green)
U106	The power conversion chip
J101	GPS antenna
J104	LTE antenna
TP105	4.0V
TP100	3.3V
TP106	1.8V

3

3. Pin definition

G-GND
R-RXD
T-TXD
K-PWRKEY
V-VCC
G-GND
S-SLEEP
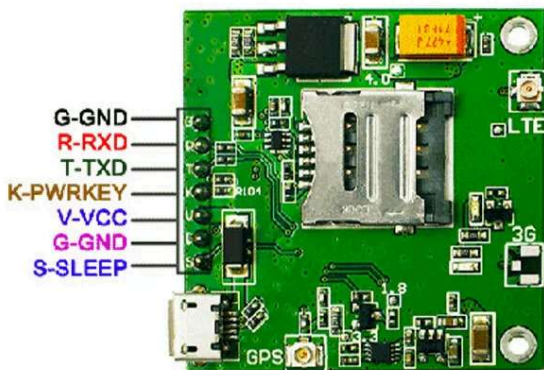
Note: VCC range is from 5.0V to 10V,
5.0V is recommended.

TXD /RXD are 3.3V TTL level which
can be directly connected with 3.3V
MCU.

3.2 How to use TXD and RXD (Default baud rate is 115200bps)

MODULE (DCE)			HOST (DTE)	
	TXD		TXD	
	RXD		RXD	
	RTS		RTS	
UART	CTS		CTS	UART
	DTR		DTR	
	DCD		DCD	
	RI		RING	
			Interrupt	

MCU.
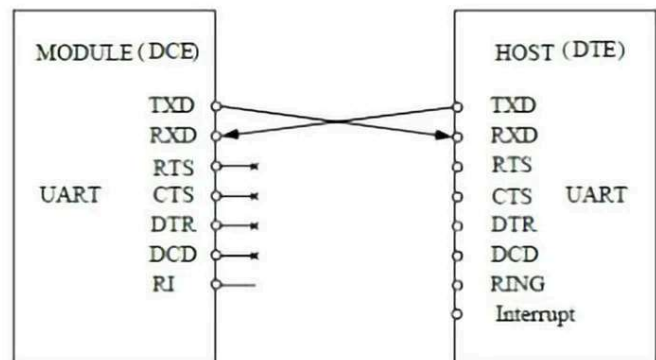
3.1 Pin definition of 6pin connector

Pin name	Pin number	Mark on PCB	Description	Comment
SLEEP	0	S	control module into sleep mode	Connect with DTR via Q102
GND	1,6	G	GND	
VCC	2	V	The power supply	5V-10V
PWRKEY	3	K	Power on/off the module	Shorted with GND via R104 by default
TXD	4	T	Transmit Data	TTL Series data Output
RXD	5	R	Receive Data	TTL Series data Input

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4. How to test the BK-SIM7600 by AT command via UART

4.1 Installing 3G antenna ,GPS antenna, and sim card for BK-SIM7600 Board.

4.2 Feed power supply to VCC pin, RED LED indicator will be lighted. (Note: VCC range is from 5.0V to 10V. 5.0V is recommended.)

4.3 GREEN LED indicator, Blinking shows registration successful.

NETLIGHT Pin Status	Module Status
Always On	Searching Network/Call Connect
200ms ON, 200ms OFF	Data Transmit
800ms ON, 800ms OFF	Registered network
OFF	Power off / Sleep

4.4 Open serial software   and choose right serial number, Baud rate as below, please keep "SendNew" selected:
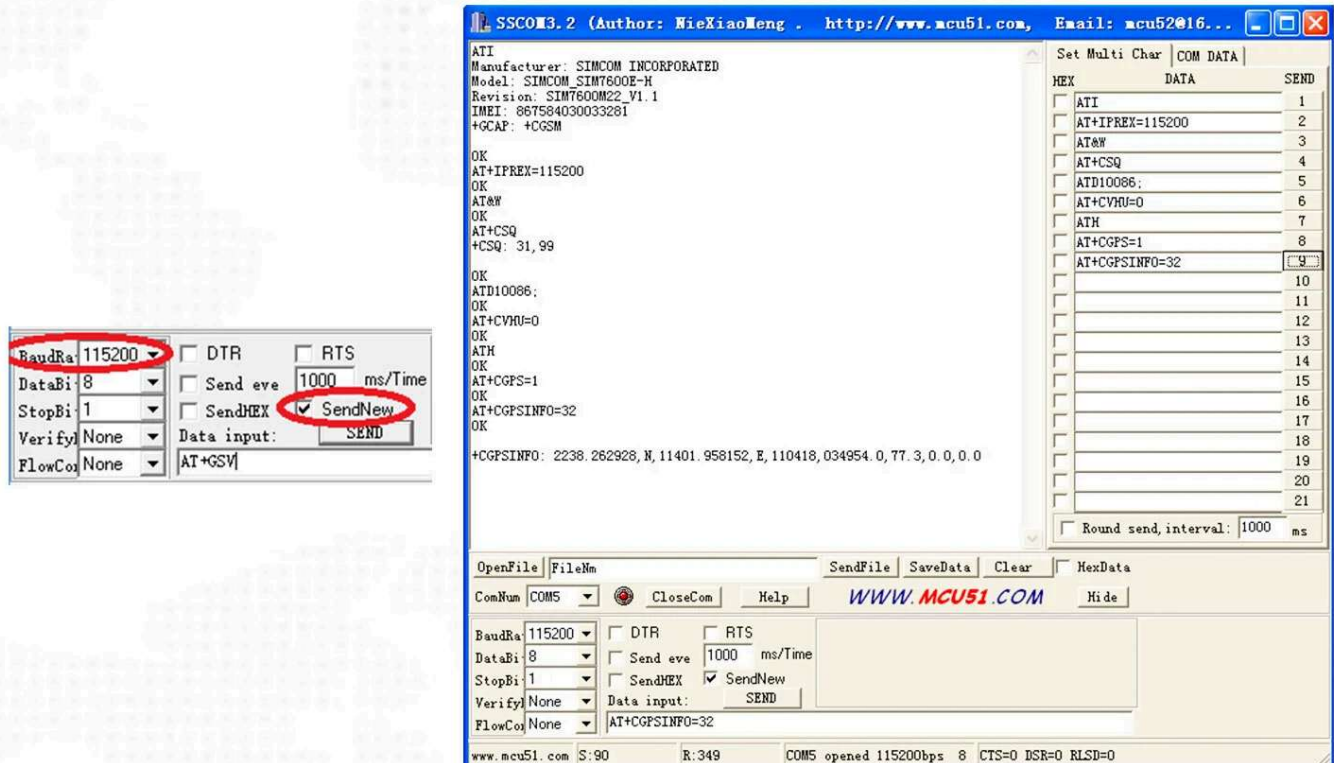
5

5. How to test the BK-SIM7600 by AT command via USB

5.1 Remove all connection on CN101 7pin connector, Power up the SIM7600 Breakout board only via USB, Install SIM7100_SIM7500_SIM7600 Series

Windows USB driver_V1.00.rar driver following the computer indication. The computer will show as belows, it means that the driver is installed correctly.

```
□-- 端口 (COM 和 LPT)
    SimTech HS-USB AT Port 9001 (COM16)
    SimTech HS-USB Audio 9001 (COM13)
    SimTech HS-USB Diagnostics 9001 (COM14)
    SimTech HS-USB NMEA 9001 (COM15)
    USB Serial Port (COM5)
```

5.2 Select AT Port 9001, 115200bps and SendNew, you can repeat all command in Item4.4.

```
ATI
Manufacturer: SIMCOM INCORPORATED
Model: SIMCOM_SIM7600E-H
Revision: SIM7600M22_V1.1
IMEI: 867584030033281
+GCAP: +CGSM

OK
AT+IPREX=115200
OK
AT&W
OK
AT+CSQ
+CSQ: 31,99

OK
ATD10086;
OK
AT+CVHU=0
OK
ATH
OK
AT+CGPS=1
OK
AT+CGPSINFO=32
OK

+CGPSINFO: 2238.263768,N,11401.995635,E,110418,035450.0,76.5,0.0,0.0
```
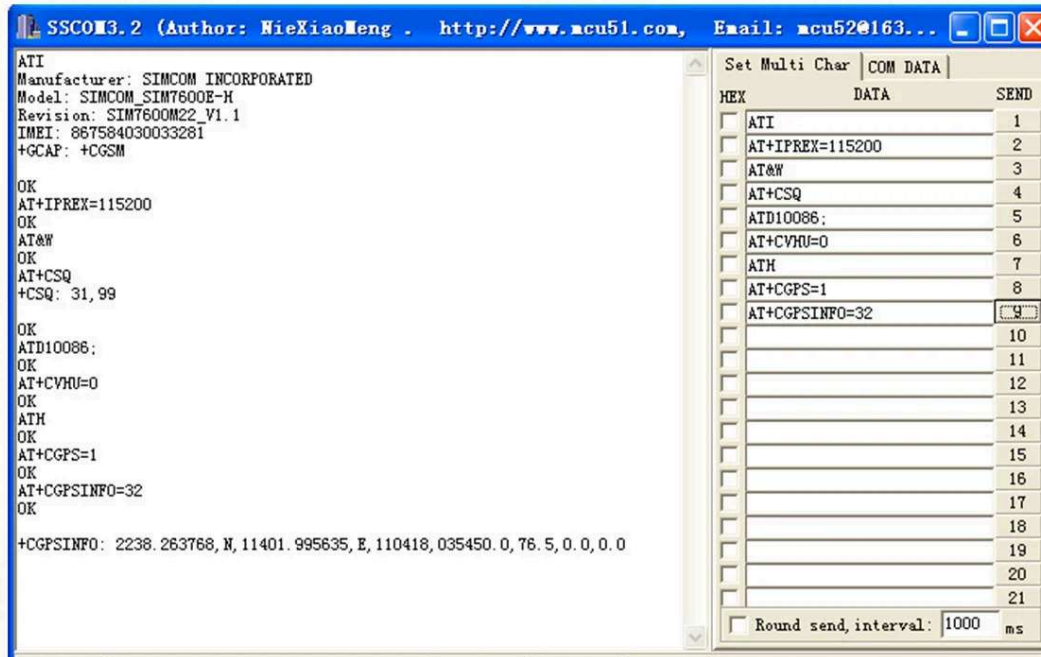
Set Multi Char | COM DATA

HEX	DATA	SEND
☐	ATI	1
☐	AT+IPREX=115200	2
☐	AT&W	3
☐	AT+CSQ	4
☐	ATD10086;	5
☐	AT+CVHU=0	6
☐	ATH	7
☐	AT+CGPS=1	8
☐	AT+CGPSINFO=32	9
☐		10
☐		11
☐		12
☐		13
☐		14
☐		15
☐		16
☐		17
☐		18
☐		19
☐		20
☐		21

☐ Round send, interval: 1000 ms

Product Detail

BaudRa 115200 ▼   ☐ DTR   ☐ RTS
DataBi 8 ▼   ☐ Send eve 1000 ms/Time
StopBi 1 ▼   ☐ SendHEX ☑ SendNew
Verify None ▼   Data input: SEND
FlowCo None ▼   AT+CGPSINFO=32

www.mcu51.com S:90   R:349   COM16 opened 115200bps 8 CTS=0 DSR=0 RLSD=0

COMPANY PROFILE

Wireless module
and hardware solution

15+ years

Why Choose us?

There are several reasons for choosing AND-GLOBAL, Some of them are:

- We design by ourselves, we do PCB production by ourselves, we do QC passed 100% by our workers.

- Our staff consists of highly skilled hardware engineers and immensely talented designers.

- We believe in the benefit of forming strategic alliances which help the company to expand further.

- We provide excellent quality solutions which are always delivered on time.

01	Advanced Designs
02	Creative Team
03	Affordable Price
04	Quality Assurance
05	Quick Support

Package

Exports Process

Shipping

1	2	3	4	5	6
Inspection and quality check of good	Package, Label & Mark the goods	Get the delivery order	Stuffing and Sealing of Containers	Flying to Global	Delivery

ENTERPRISE DISPLAY

Our technical team would give perfect network solution for our entire customers focusing every detail.

GET IN TOUCH WITH Us

just leave your email or phone number in the contact form so we can send you a free quote for our wide range of designs

* Name

* Email

* Content

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Usb Dongle Sim7600g,Lte Usb Dongle Cat1 Simcom 4g 1pc

New Lte Cat1 Module Sim7600g Mini Board Breakout Core With Gps And 4g Antenna