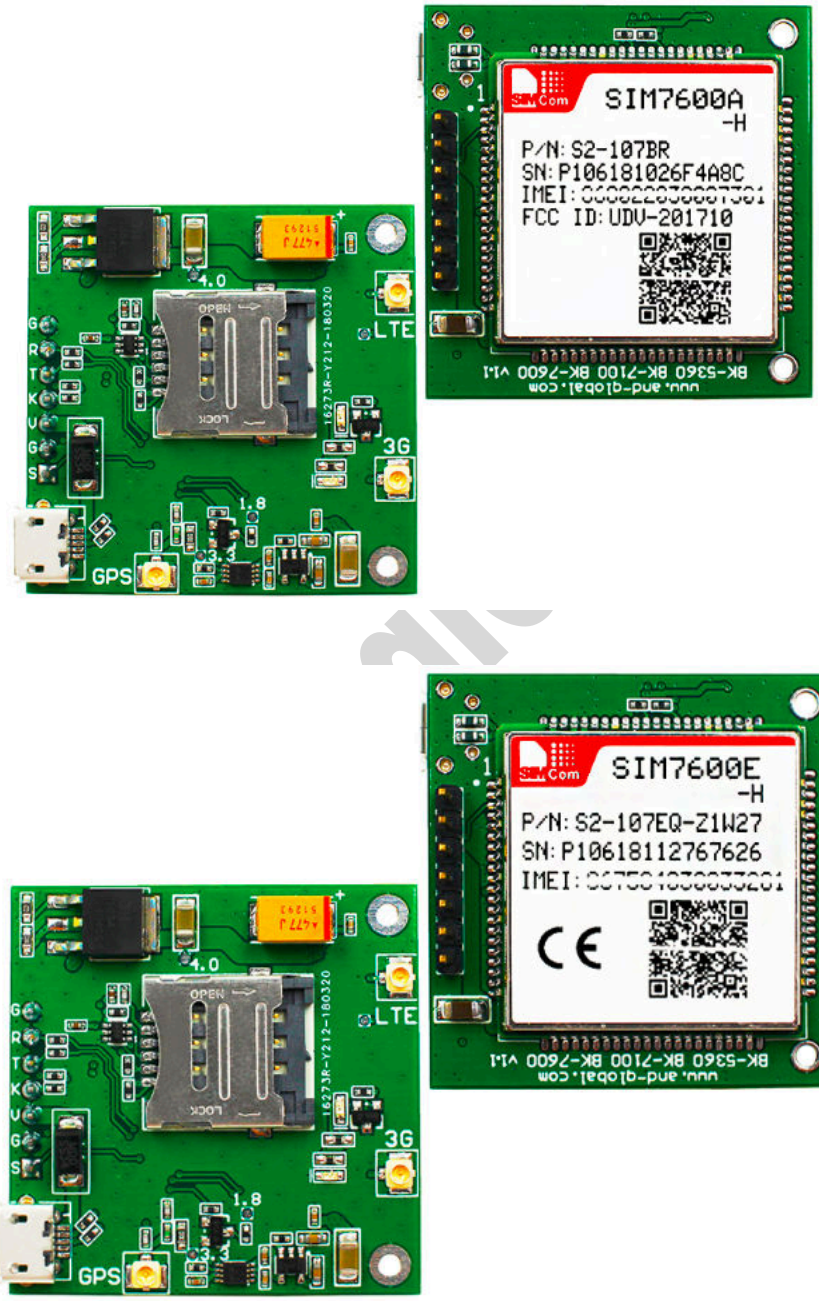
Breakout SIM7600 User Manual



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OEM PCBA : http://www.buypcba.com
Retail Store : http://www.aliexpress.com/store/605000
Golden supplier on Alibaba : http://and-global.en.alibaba.com
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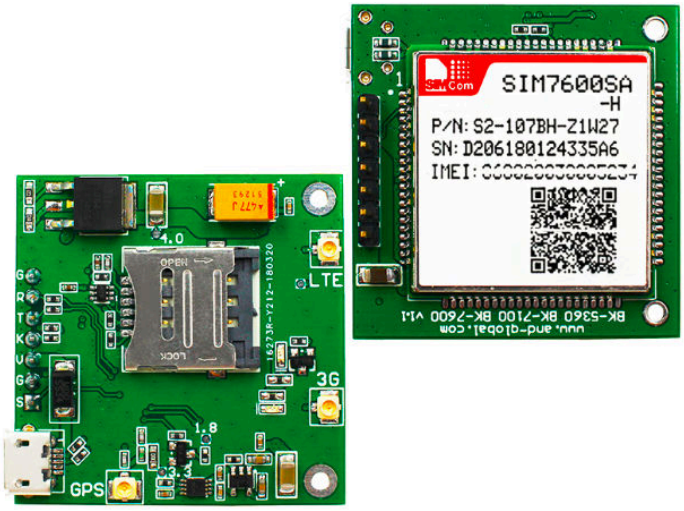
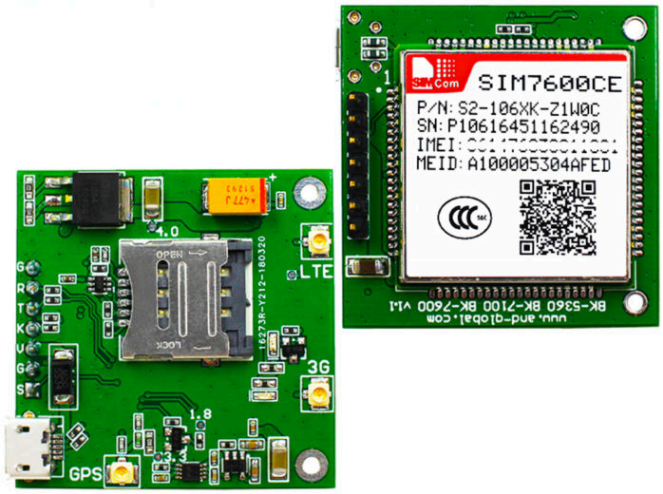




1. Preparation:

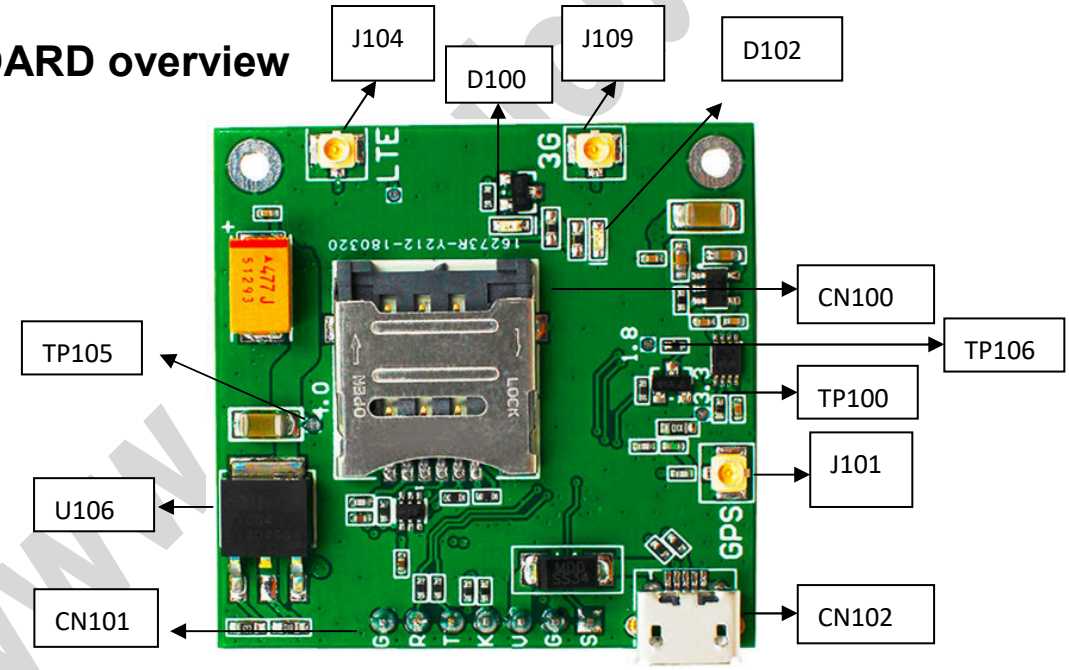
Board	**BK-SIM7600**
Serial tool	**sscom32E.exe**

2. Overview

2.1 Module feature

- SIM7600X-H is a complete multi-band LTE-FDD/LTE-TDD/HSPA+/UMTS/EDGE/GPRS/GSM module solution in LCC type which supports LTE CAT4 up to 150Mbps for downlink 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 ℃

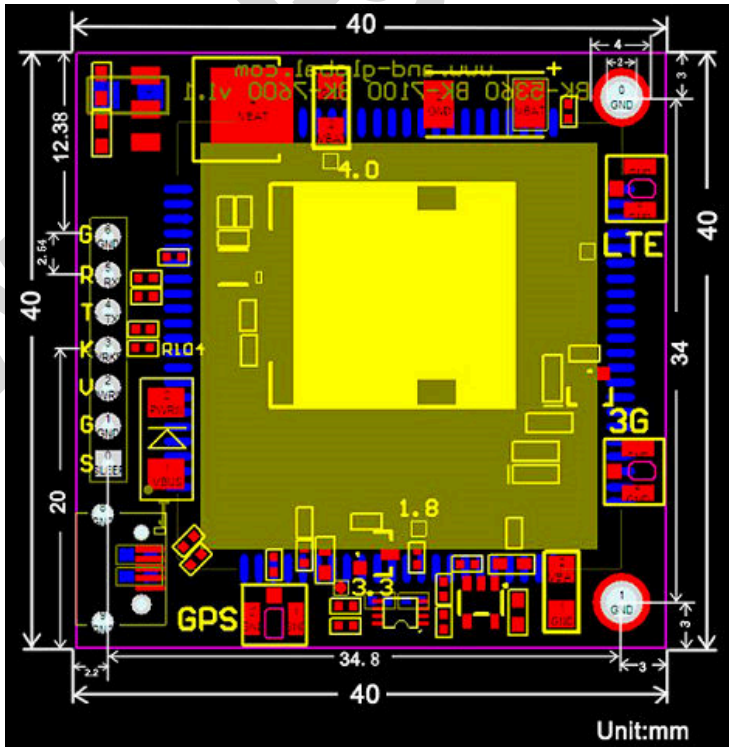
2.2 BOARD overview



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
J109	Auxiliary antenna
J101	GPS antenna
J104	LTE antenna
TP105	4.0V
TP100	3.3V
TP106	1.8V

2.3 PCBA dimension: 40*40mm



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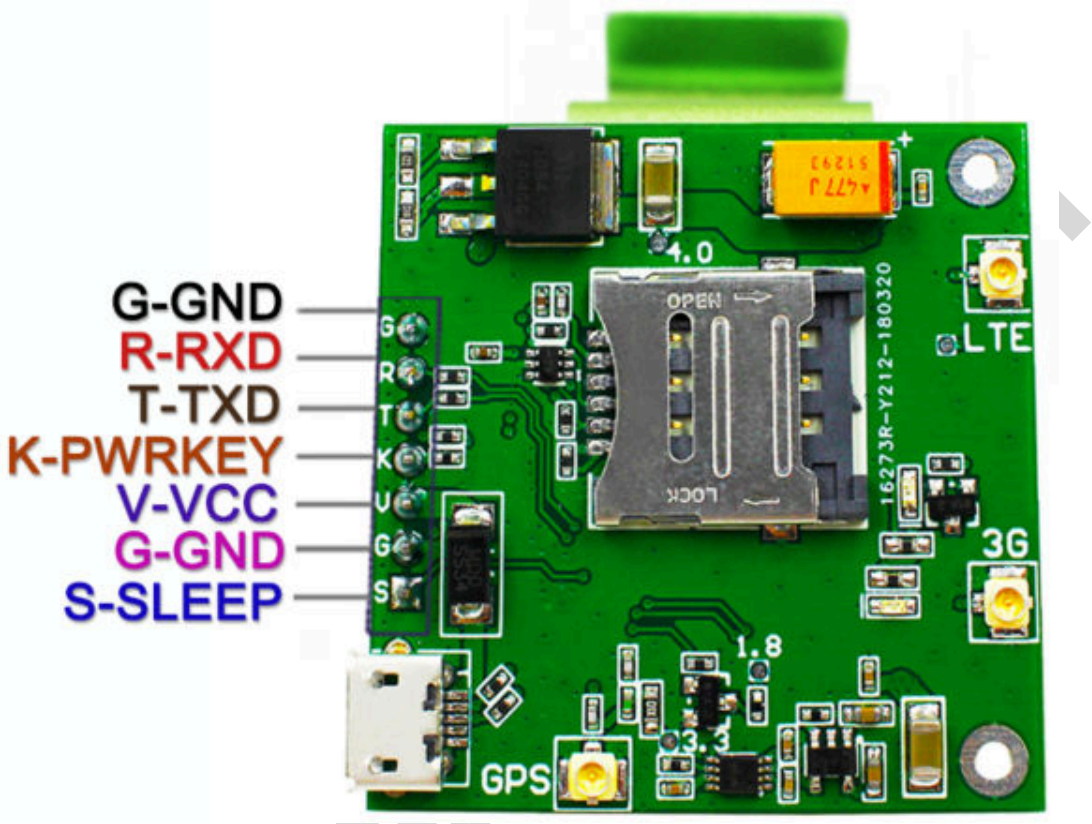
3. Pin definition



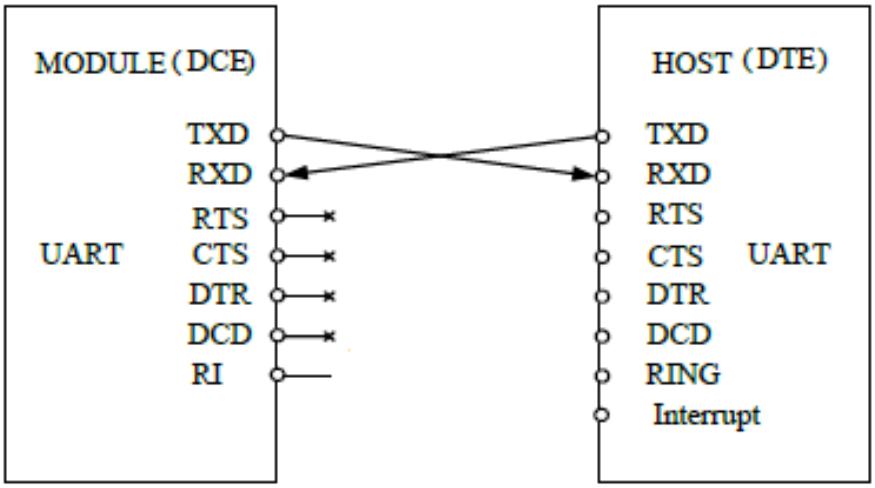
Note: VCC range is from 5.0V to 10V, 5.0V is recommended.

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

3.1 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

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



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.

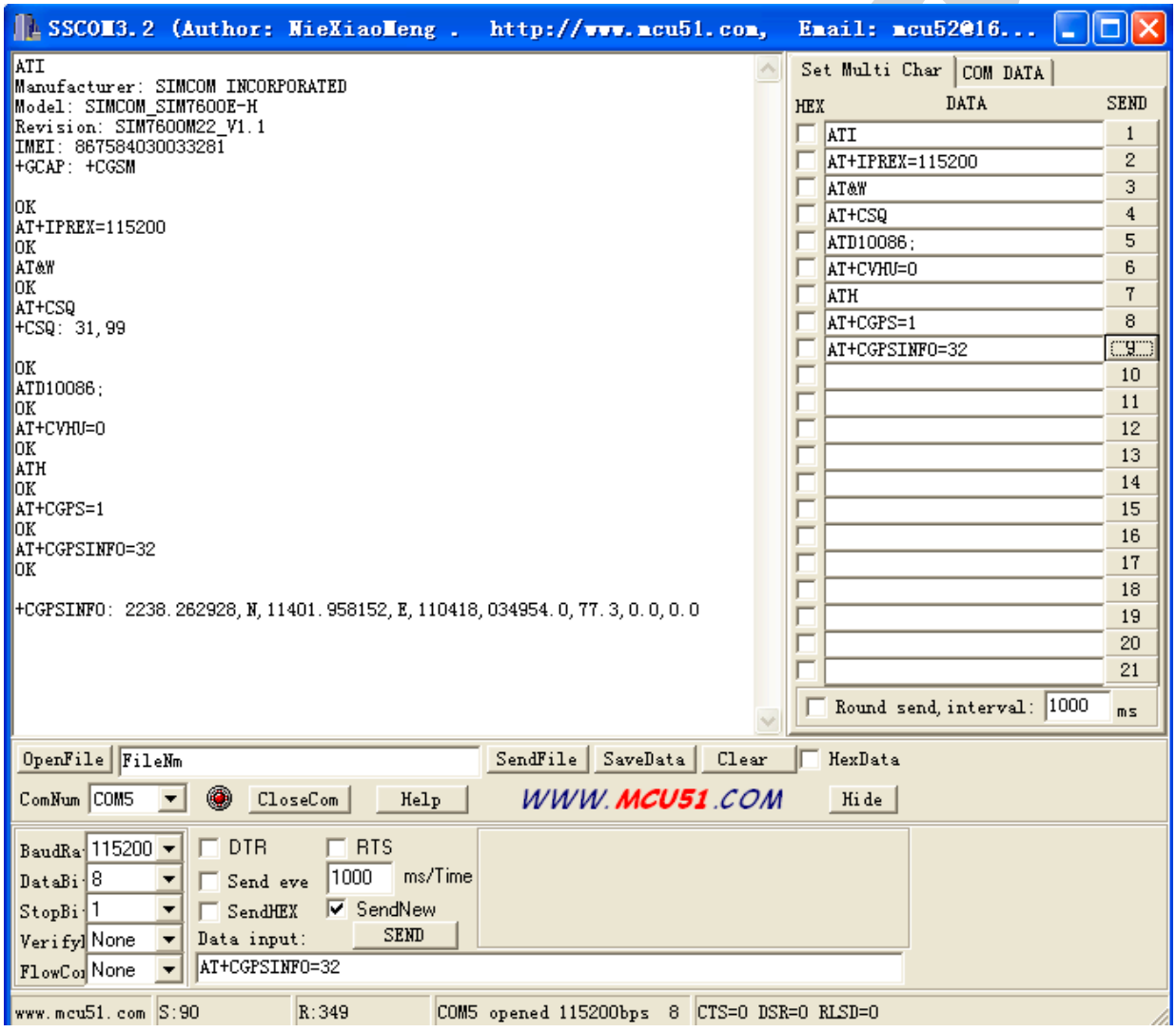
4.2 Feed power supply to VCC pin, RED LED indicator will be lighted. (Note: VCC range is from 5.0V to 10V. 5.0V is recommended.)

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

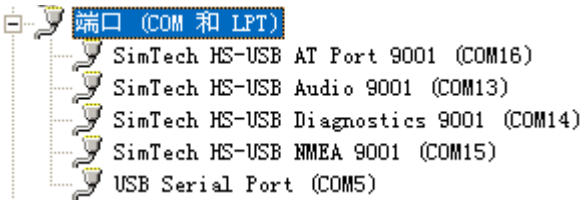
4.4 Open serial software

and choose right serial number, Baud rate as below, please keep “SendNew” selected:



5. 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.



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

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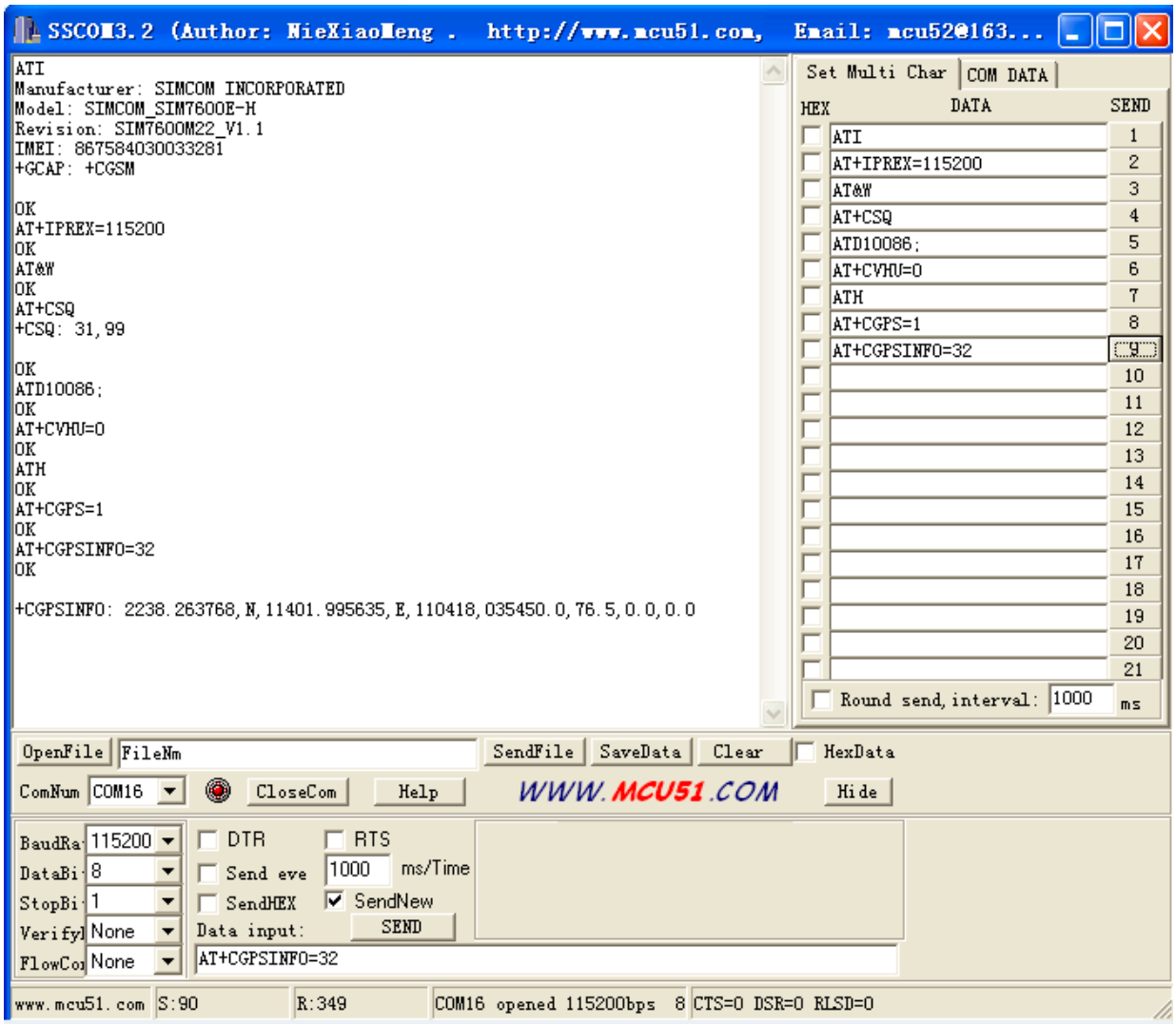

6.Package list:

Name	Qty	Unit
BK-SIM7600	1	Pcs