www.hongdian.com

HONGDIAN

Application Guide

H7710 DTU-SMS Description

Contents

Revision History

Updates between document versions are cumulative. Therefore, the latest document version contains all updates made to previous versions.

Doc Version	Product	Release Data	Details
V1.0	H7710 V62 DTU	2017.09.05	First Release

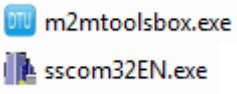
1 Overview

This document shows how the SMS function works of the Hongdian DTU device. Hongdian DTU (Data Transfer Unit) is a serial to modem device,which transfer the serial date to TCP/IP data. H7710 DTU support 3G/4G communication, SMS control and etc.

2 Description

2.1 Attention

1. The test suggests the tools as below:



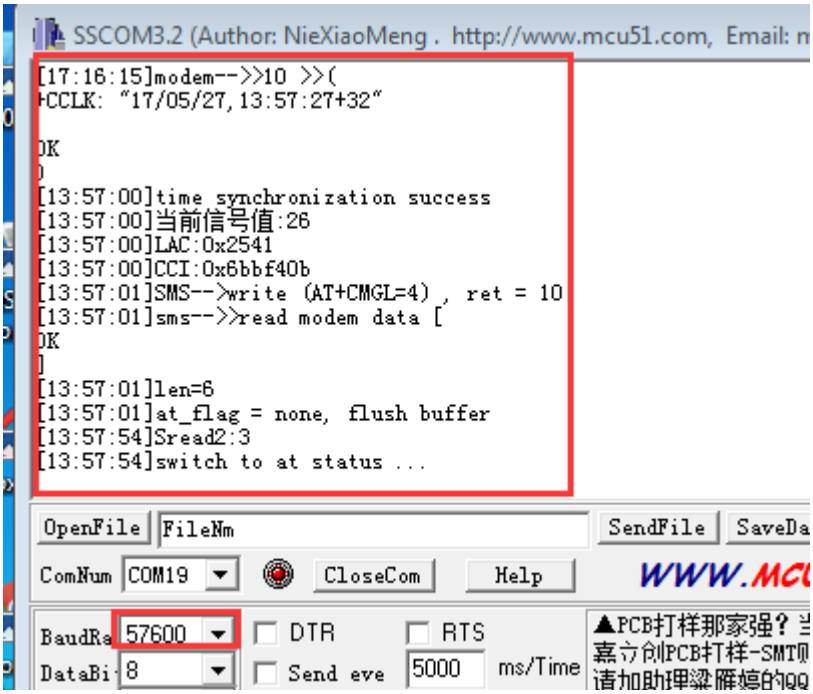
Wherein, the “m2mtoolsbox” is also called the “DTU Tool” in this document.And the “sscom” is serial port tool, similar to “Hyperterminal”, ”SecureCRT”, and etc.

2. Double serial DTU and single serial port DTU use different methods, please pay attention to your DTU is a single serial version or double serial version at first.

Single serial version：
COM port baud rate of 57600, you can connect DTU Tool for configuration parameters, or you can also use the SSCOM serial debugging tool to display debugging logs and send data.

Dual serial version：
One of the COM port baud rate is 57600, you can let the DTU Tool connected to the configuration parameters, but also allows the SSCOM serial debugger to connect to send and receive data.
Another COM port baud rate of 115200, can not let DTU Tool connected, you can let SSCOM serial debugging tool connected to display the debug log.
When your DTU is a dual serial version, it is recommended that you use two serial ports to connect to the computer for debugging, and 115200 of the COM ports are dedicated to printing logs.

As an ordinary user, you can check whether the DTU is a single serial port:
After your DTU device connected with PC properly. Open SSCOM, use 57600 COM, restart DTU (power off and power up), wait for one minute. SSCOM can display logs as follows, then the DTU



2.2 SMS Operation

Single serial and double serial DTU in function configuration is consistent, the following provide SMS function configuration reference.

1. When DTU is connected to the PC, open m2m tool box(DTU Tool), select the correct COM port and baud rate, as below.

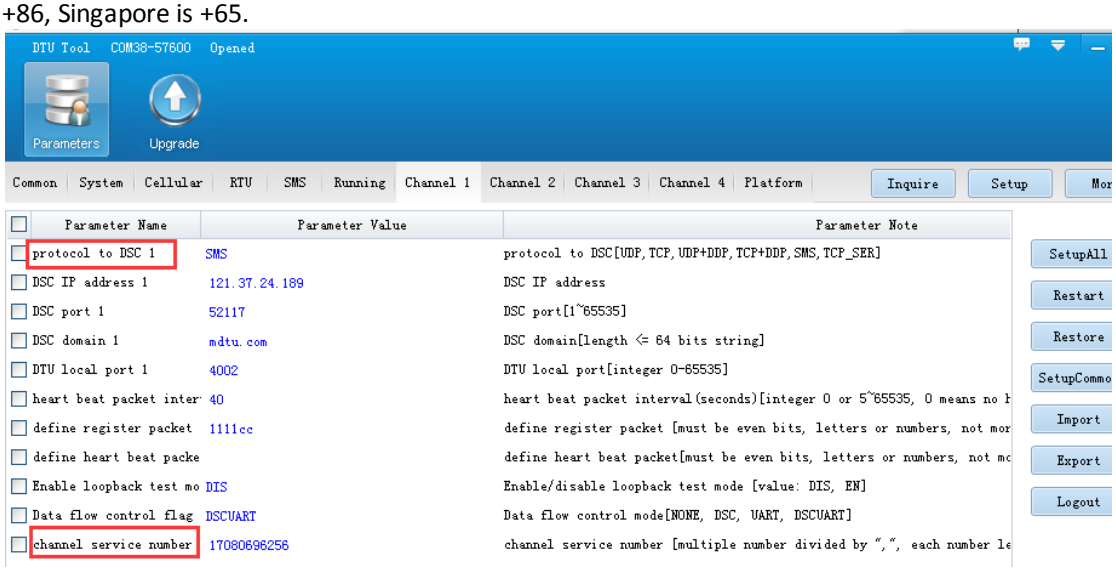
COM 38
Baud rate 57600

When connecting OK, the log of the DTU Tool will show as below

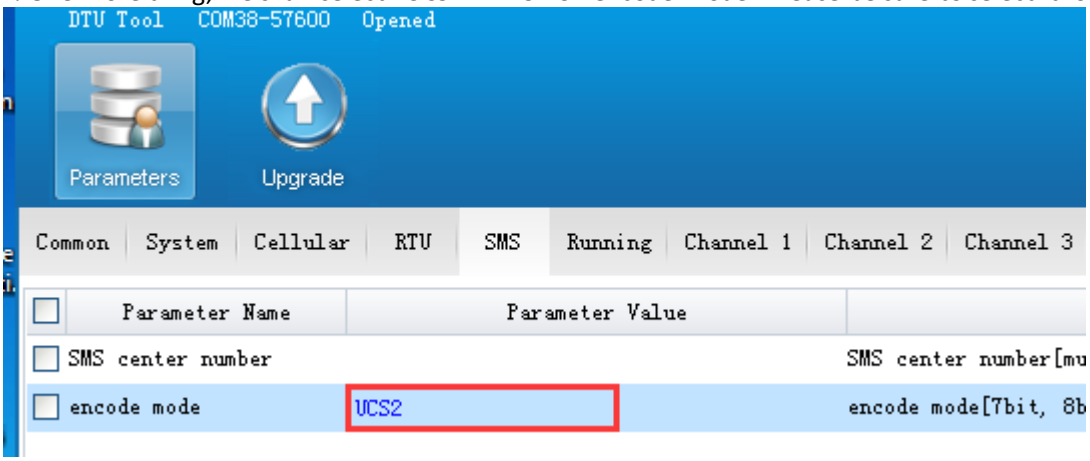
```
[11:21:22] Getting parameter from device...
[11:21:22] Get parameter successfully.
```

2. Click More->Login , input "admin" as default password to login the tool.

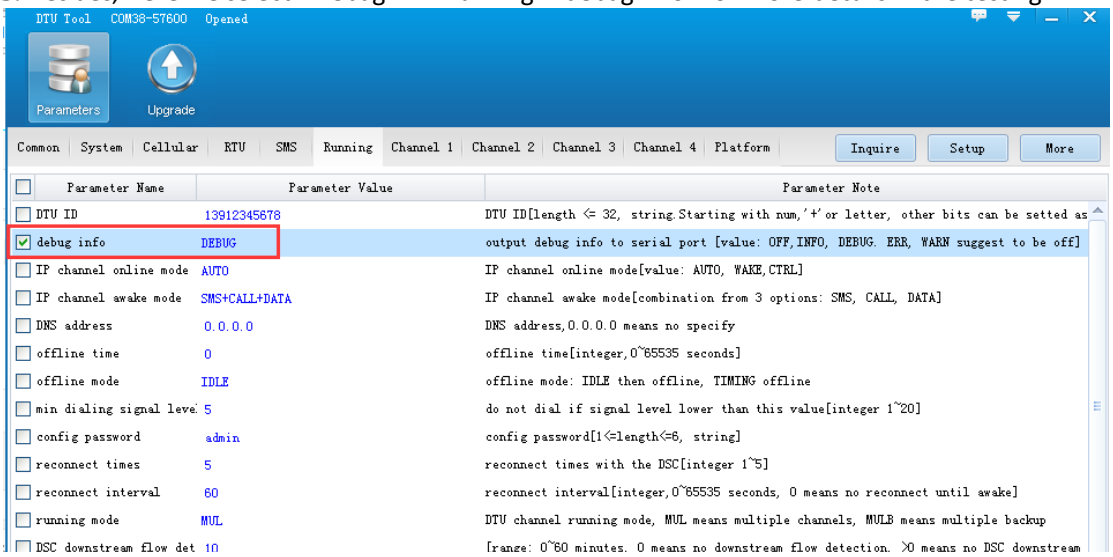
3. For SMS function and testing, the configurations are as below.
Select "SMS" as the protocol to DSC1, and input "Channel service number" which is for receiving the message.
Note: The "Channel service number" should be input the prefix of international telephone code.Such as China is +86, Singapore is +65.



4. One more thing, we shall select "UCS2" in "SMS->encode mode".Please be sure to select it for the first time.



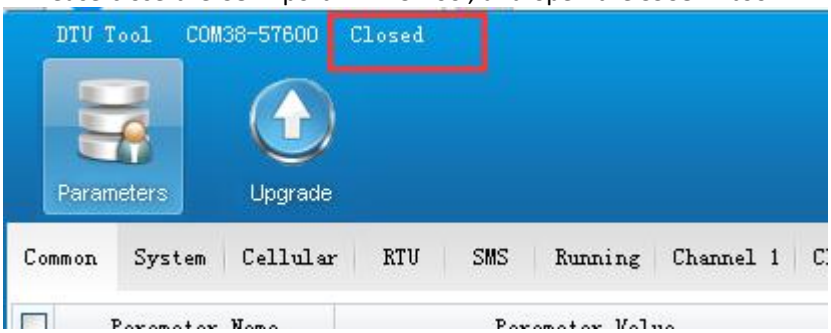
5. Besides, here we select "Debug" in "Running ->debug info" for more details in the testing.

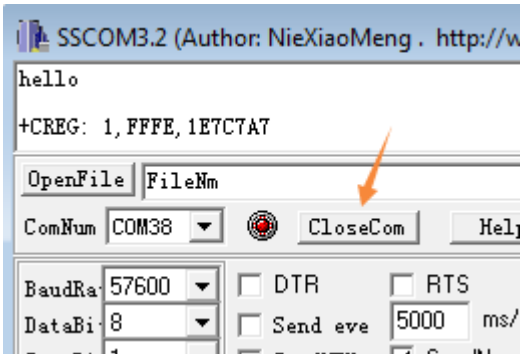


6. Click "Setup", then "More ->Restart " to save and take effect.

7. Then let's turn to the SSCOM tool for function testing.

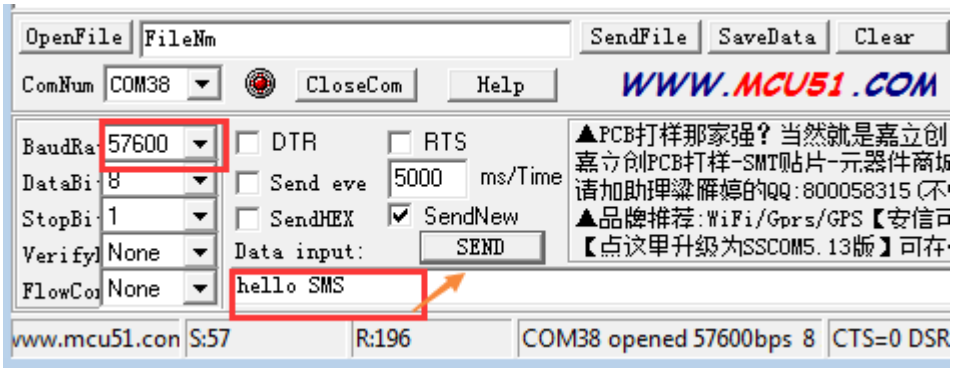
Please close the COM port in DTU Tool, and open the SSCOM tool





8. Wait about 1 minutes, SSCOM tool will print log out, if not, please give DTU restart.
(but if it's a double serial DTU, connect and select the 115200 COM port to print the log)

After the log is printed, send the data at the SSCOM tool 57600 COM port



Check the SSCOM print log to indicate the success of the send (or to remember the SSCOM print log, where the single serial DTU is displayed at 57600 COM, and the dual serial DTU is displayed at 115200 COM)

9. Finally, you can see if the phone has received text messages.

2.3 DTU SMS remote config

1. SMS remote config DTU parameter

DTU parameter	Description
ip	DSC ip
port	DSC port
domain	DSC domain
mode	DSC communication mode
apn	GPRS access point name
user	GPRS username
pwd	GPRS password
code	Service code
id	DTU identifier

2. SMS format content
reboot DTU --- reset
config DSC ip --- set:ip1=210.75.17.180
config DSC port --- set:port1=30900
config DSC domain --- set:domain1=www.mdtu.com
config DSC communication mode --- set:mode1=tcp
config apn --- set:apn=cmnet
config user --- set:user=cmnet
config pwd --- set:pwd=cmnet
config code --- set:code=*99#
config id --- set:id=123000

Or you can make one SMS to config DTU these parameters as shown below
set:ip1=210.75.17.180;port1=30900,domain1=www.mdtu.com,mode1=tcp,apn=cmnet,
user=cmnet,pwd=cmnet,code=*99#,id=123000

Please note ip1 is for channel1, so ip2 is for channel2...

After SMS is sent, DTU will reply these results:
DTU SMS remote config success: **DTU set param success**
DTU SMS remote config failure: **DTU set param failed**


11:46
13823698643 (3)
set:ip1=210.75.10.182
DTU set param successed
reset

HONGDIAN

Create smart things

Contact us

F14 - F16, Tower A, Building 14, No.12, Ganli 6th Road, Longgang District, Shenzhen 518112, China.

+86-755-88864288-5

+86-755-83404677

hongdianchina

www.hongdian.com

sales@hongdian.com

Hongdian_China