HONGDIAN

Application Guide

H7710 DTU-First Connection-DTU Tool

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	2017.09.29	First Release

1 Overview

This document shows how to connect Hongdian DTU with PC via serial port, and how to configure the parameters with the "DTU Tool".

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.

H7710 DTU has single serial port version and dual serial ports version. The signal serial port version provides one kind of serial port in RS232, RS485, RS422 or TTL, and the dual serial ports version provides RS485+RS232, RS232+RS232 or etc. Wherein the dual serial ports version is that one port for data transmission and the other port for debuging.

2 Description

2.1 Product images

Images of Hongdian DTU are as below

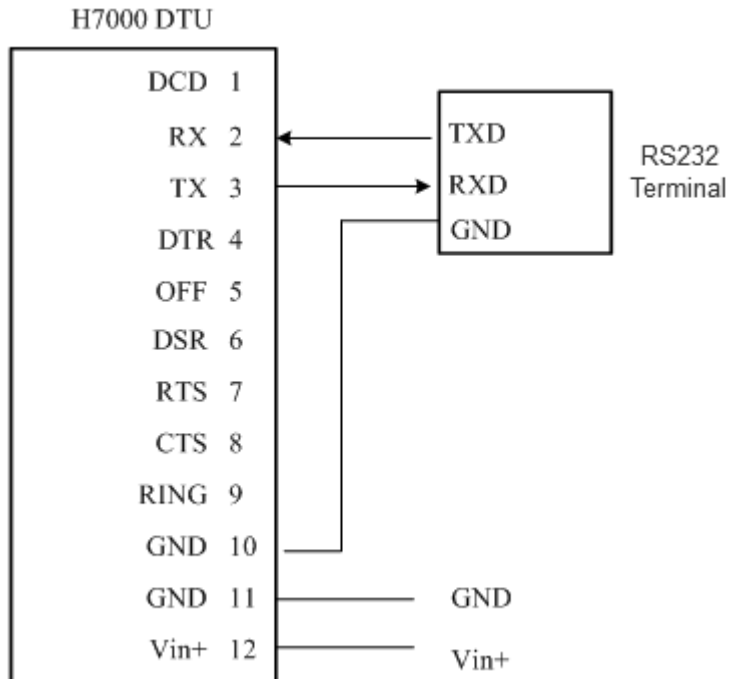| Front panel	Rear panel
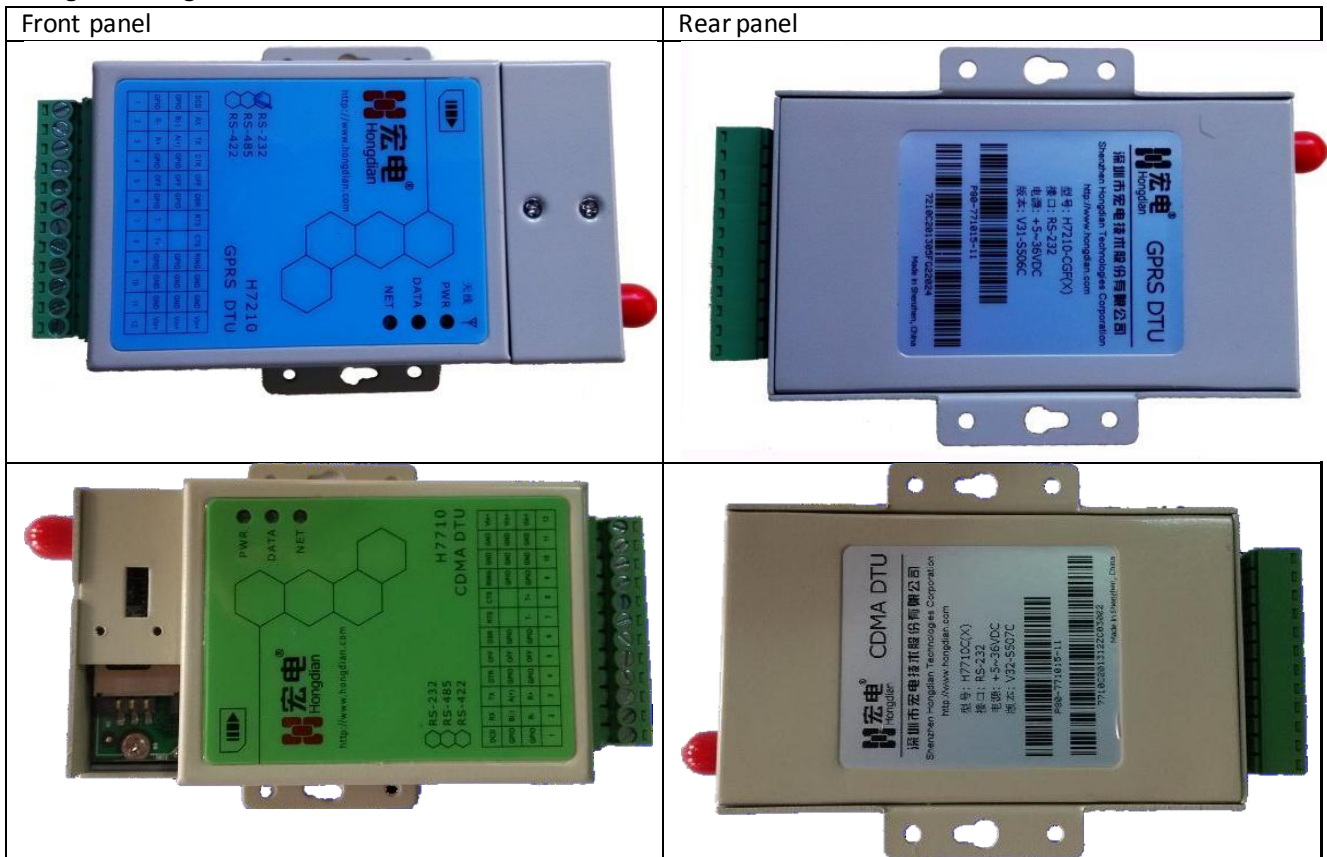
Please pay attention to the terminal block description on the front panel, and the interface type in the rear panel, because different serial port type refers to different cable connection method.
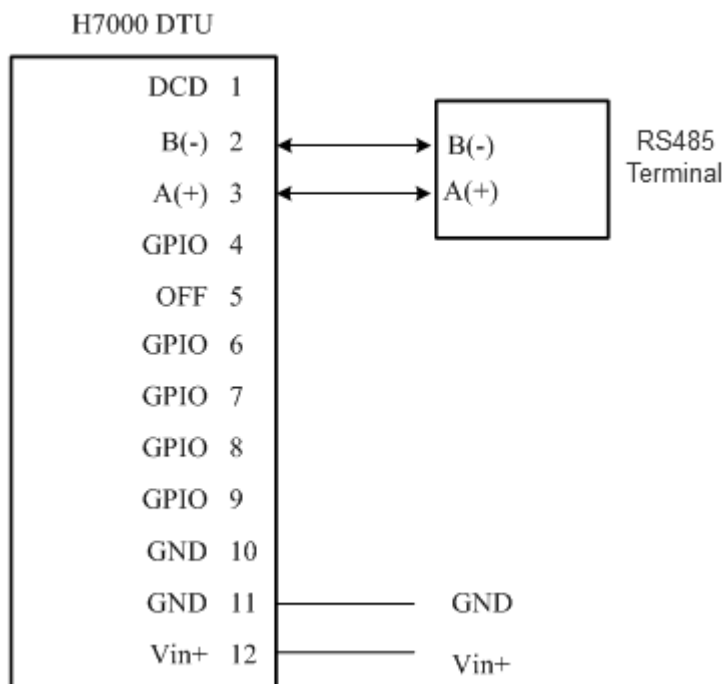
2.2   Wiring diagram

Please select the properly wiring method according to your DTU.

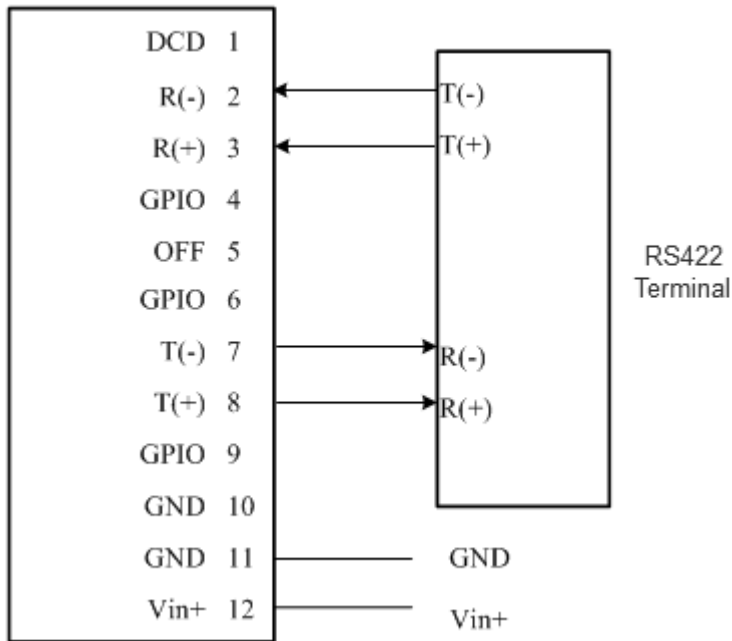### 2.2.1 Signal serial port
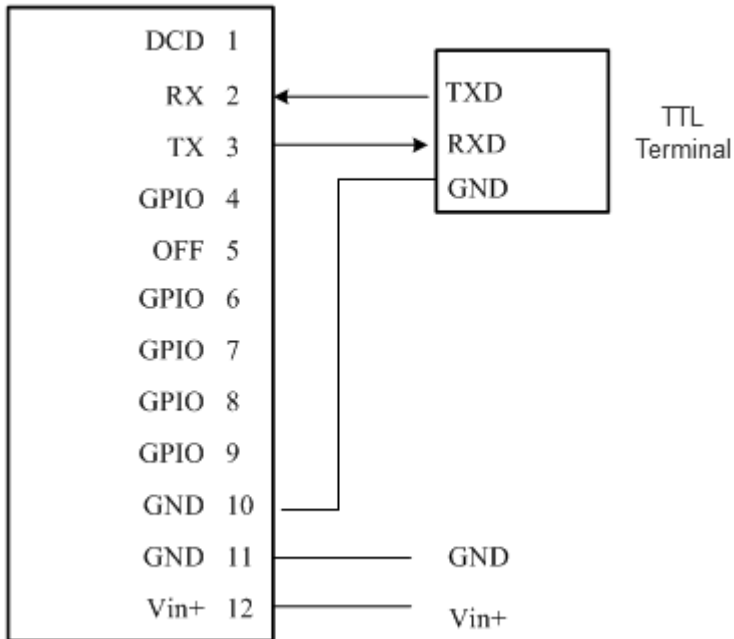
1. RS232 Connection

2. RS485 Connection
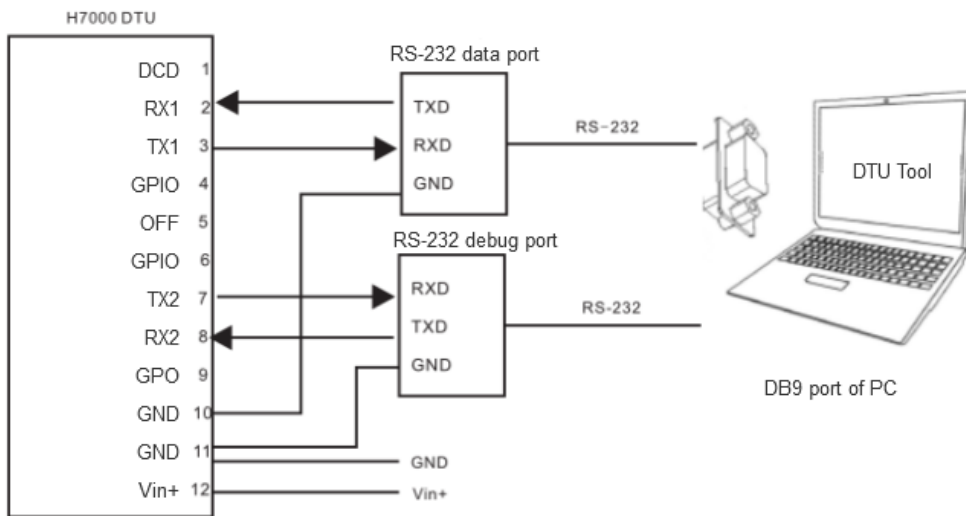
3. RS422 connection

4. TTL connection

2.2.2 Dual serial ports

Take RS232+RS232 connection as the example, while other types are similar.
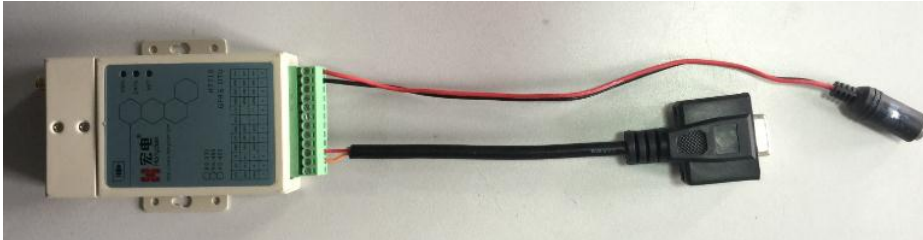
1. RS232+RS232 connection

2.3 Login DTU tool

2.3.1 Preparation

1. Make sure you have connect the DTU device with PC.

If your DTU is RS232 type, and your PC has the DB-9 port, they can be connect directly.
If your DTU is not RS232 type, you should prepare the convertor such as RS485-to-RS232 convertor;
And if your PC is no DB-9 port, you should prepare the DB9-to-USB convertor.

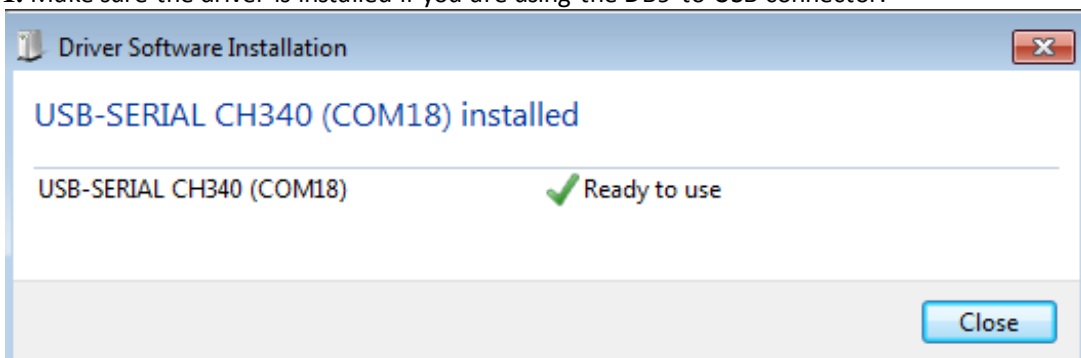**2.** For configuring or debugging the DTU device,the suggested tools are as below:
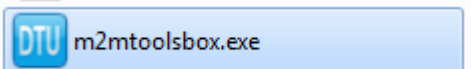
 m2mtoolsbox.exe

 sscom32EN.exe

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.

2.3.2 DTU tool settings

1. Make sure the driver is installed if you are using the DB9-to-USB connector.

2. Open the DTU config tool

 m2mtoolsbox.exe

3. Select the properly COM port

4. Then the dialog poped up

Serial Port Information   ✕

SieralPort   COM18 ▼

Bandrate   57600 ▼

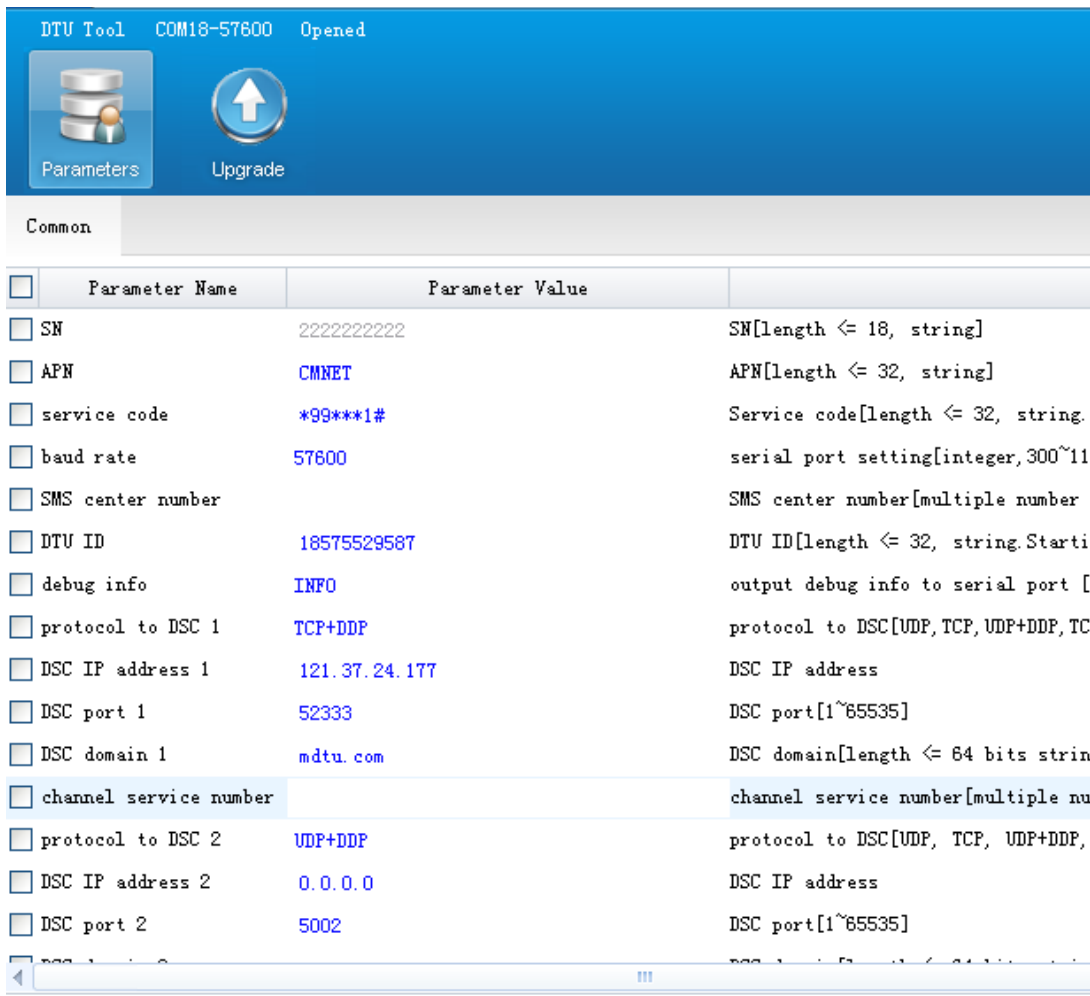Timeout   50   (Unit:Second)

Password   *****

DataBit   8 ▼

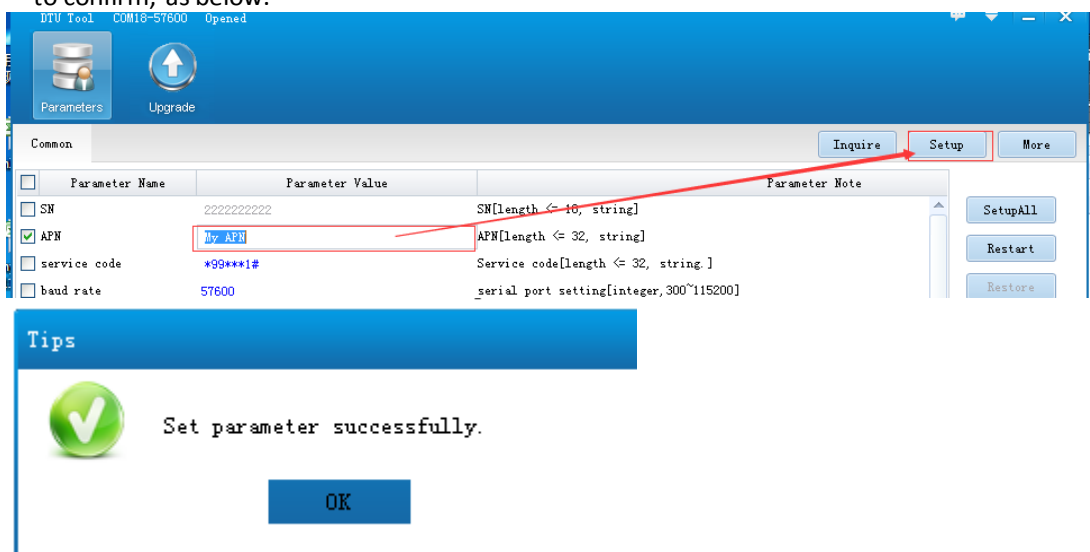CheckBit   None ▼

StopBit   1 ▼

Save   Add   Delete

No.	Port	Bandrate	DataBit	CheckBit	StopBit	Timeout
1	COM18	57600	8	None	1	50

5. Restart the DTU tool. It will show "successfully" tip after connected.

6. If you want to edit the parameters , for example to change the APN, click the value to edit,then click "Setup" to confirm, as below.

7. Click "More->Login", input password "admin", for more configuration
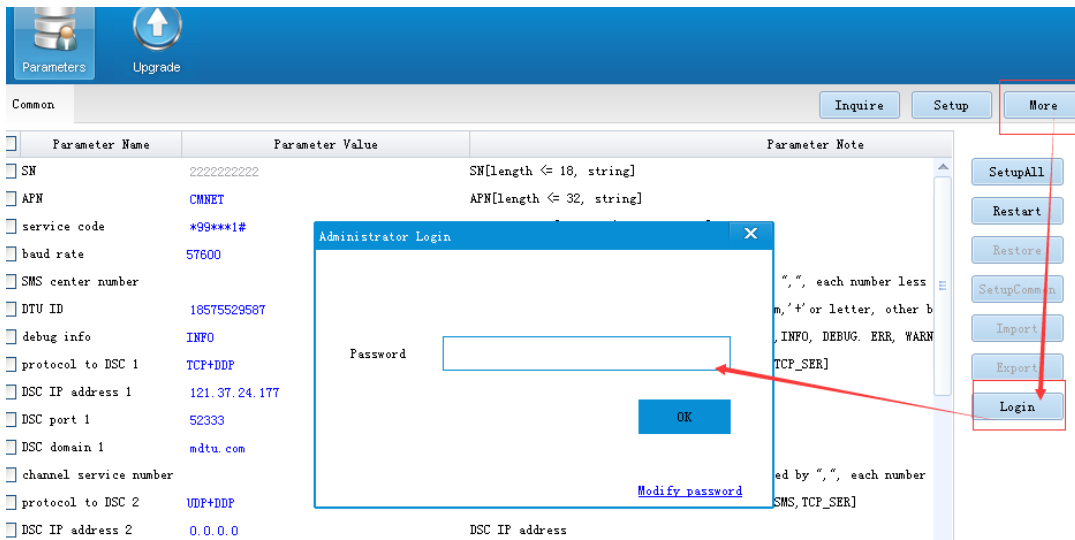
8. This ducument is giving you a complete operation step at the first using, for the advancing configuration, please read the DTU user manual or other guidance.

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