RTU-140
Quick Start

What's In the Box! ·······································

In addition to this guide, the package includes the following items:

RTU-140

CA-USB12

CA-040450

Quick Start

Screw Driver

4SASO-0007

➢ Appearance and Pin Assignments
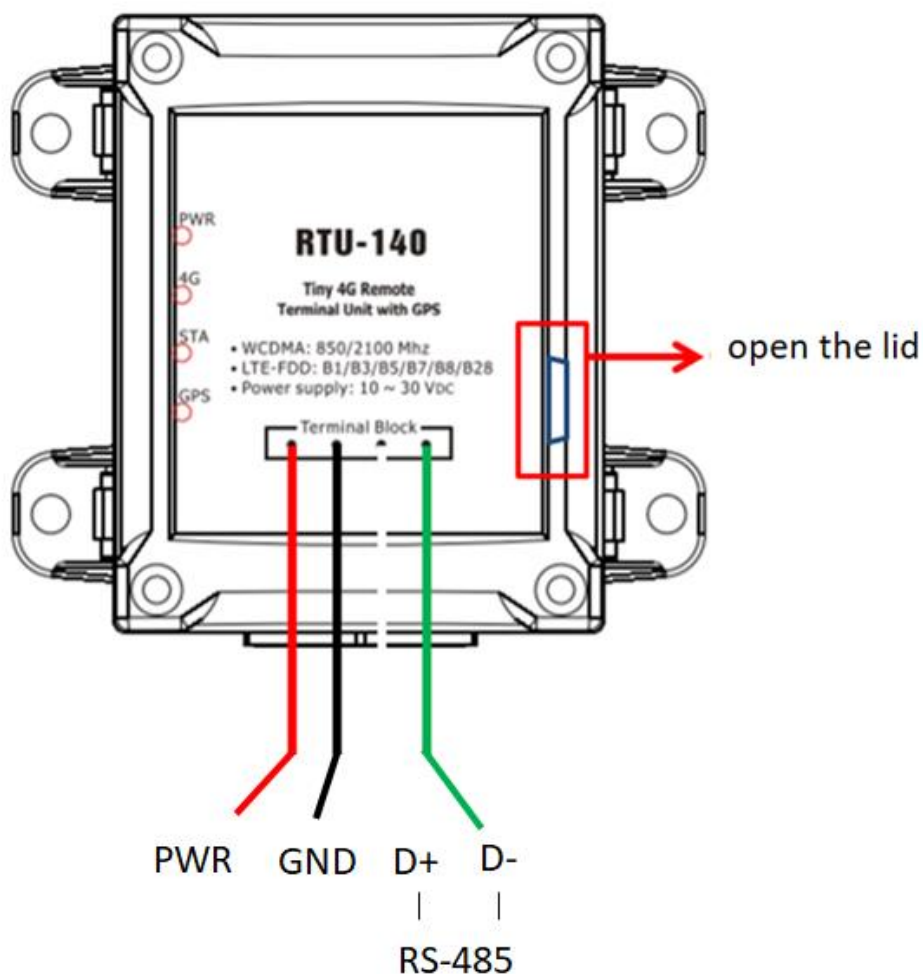
COM Port and Power Input		
Pin		**Description**
Power Input： **+10VDC ~ +30VDC**	**Black**	P.GND
	Red	PWR
COM **RS-485**	**Green**	D-
	White	D+
Utility Port	**Red frame**	Micro USB

➢ LED indicators

LED	LED Status	LED Description
PWR	Hengliang	Power supply
	Flashes every 0.5 seconds	Battery charging
4G	Hengliang	4G network search
	Flashes every 0.2 seconds	Data transfer / 4G network registration completed
	Flashes once every 0.8 seconds	3G network registration completed
	Not bright	Power off or sleep state
STA	Flashes every 0.05 seconds	Pin code error
	Flashes every 0.25 seconds	Modem communication
	Flashes every 0.5 seconds	Modem idle
GPS	Flash once per second	GPS successfully positioned
	Hengliang	GPS is not yet positioned

➢ Installing the RTU Utiliy

It needs the runtime environment with .NET Framework 2.0 or above to execute the RTU Utility in the PC.

Step 1: Get the RTU Utility tool

RTU-140_Utility.exe

Step 2: Follow the prompts to complete the installation

## ➢ How to use RTU Utility

Operation

Before RTU-140 Series Utility is connected to the PC correctly, please confirm these following steps:

1. The STA LED is blanking. There are 2 kinds of blanking in RTU-140.

STA LED	Description
Blanking per 0.25 sec	Modem communication
Blanking per 0.05 sec	The pin code is wrong. The users need to set PIN/PUK code in the RTU-140 Series Utility.
Blanking per 0.5 sec	Modem idle

2. Confirm the Micro USB connection between RTU-140 and PC is correct. Users can refer to the following figure.
3. During the setting procedure, the external power must be turn on.

Note: If the STA LED is always on, please reset RTU-140.
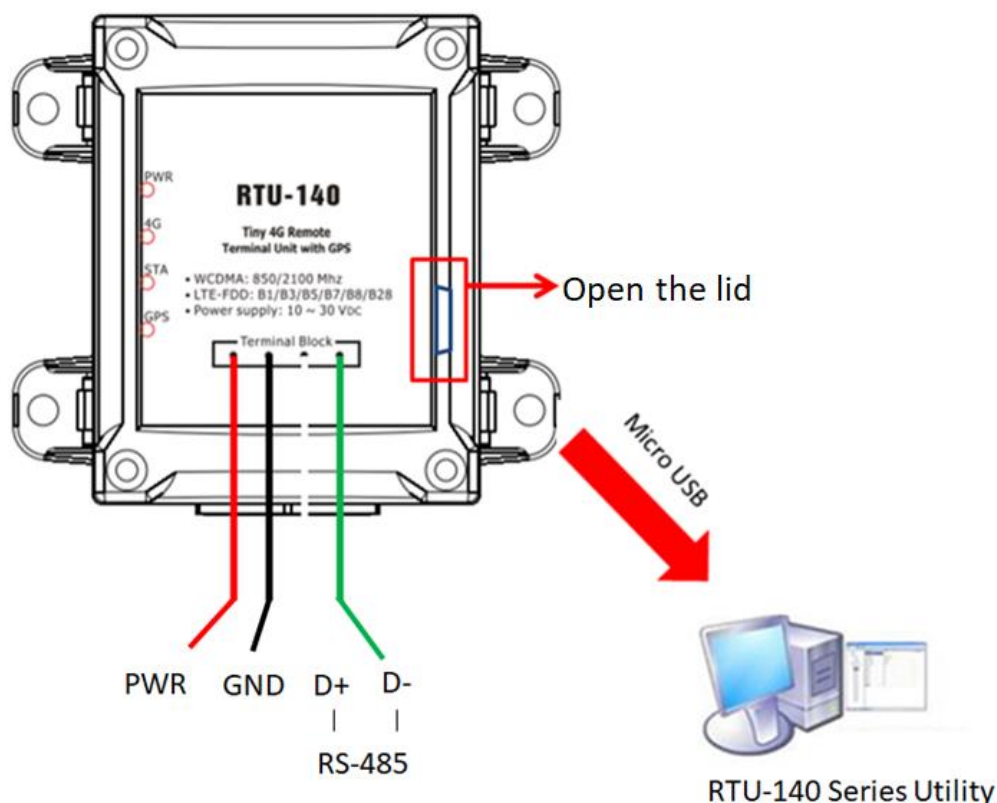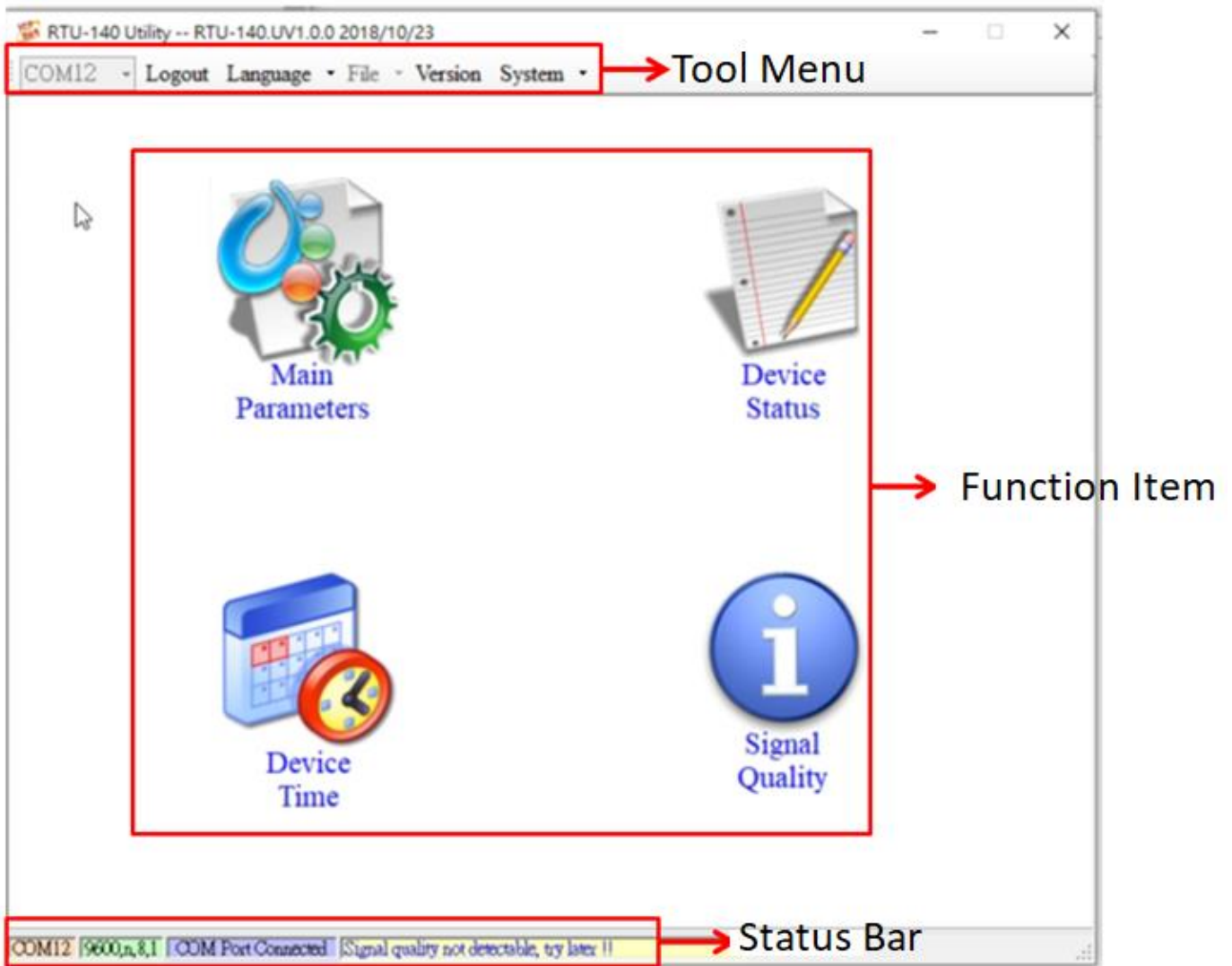
1. Tool Menu

◆ COM：

Select PC-side COM PORT connected to RTU-140

◆ Login/Logout：

Before you can do anything with the RTU-140, you must log in. After the login is successful, the option will become Logout, and the options in the Utility will allow the operation. If the SMS machine has been reopened or turned off, you must log in again.

◆ Language:

RTU-140 Utility interface text selection, currently only supports English

◆ Version：

RTU-140 Firmware and Utility version information

◆ System：

Recover to Factory Settings, Restart RTU-140 (Reset RTU-140) and Debug three functions

2. Function Item

◆ Main Parameter：
RTU-140 related settings.

◆ Device Status:

Check SD Card, GPRS and GPS status.

◆ Device Time：

Query and set the RTU-140 device time.

◆ Signal Quality：

Query the signal strength of the current device.

3. Status Bar

Display information about the operation of the RTU-140 Utility, from left to right, in order

(1) PC-side COM Port number used by the Utility.

(2) Transmission parameter setting of COM Port.

(3) The current connection status of the COM Port.

(4) The result of each operation, such as the success of the "storage" action.

➢ Technical Support
1. ICP DAS Service : **service@icpdas.com**
2. RTU software Website:
http://m2m.icpdas.com/RTU-140.html