

# TT35

## Data Acquisition Device Quick Start Guide Windows Mobile 6.5



## TT35 Spec

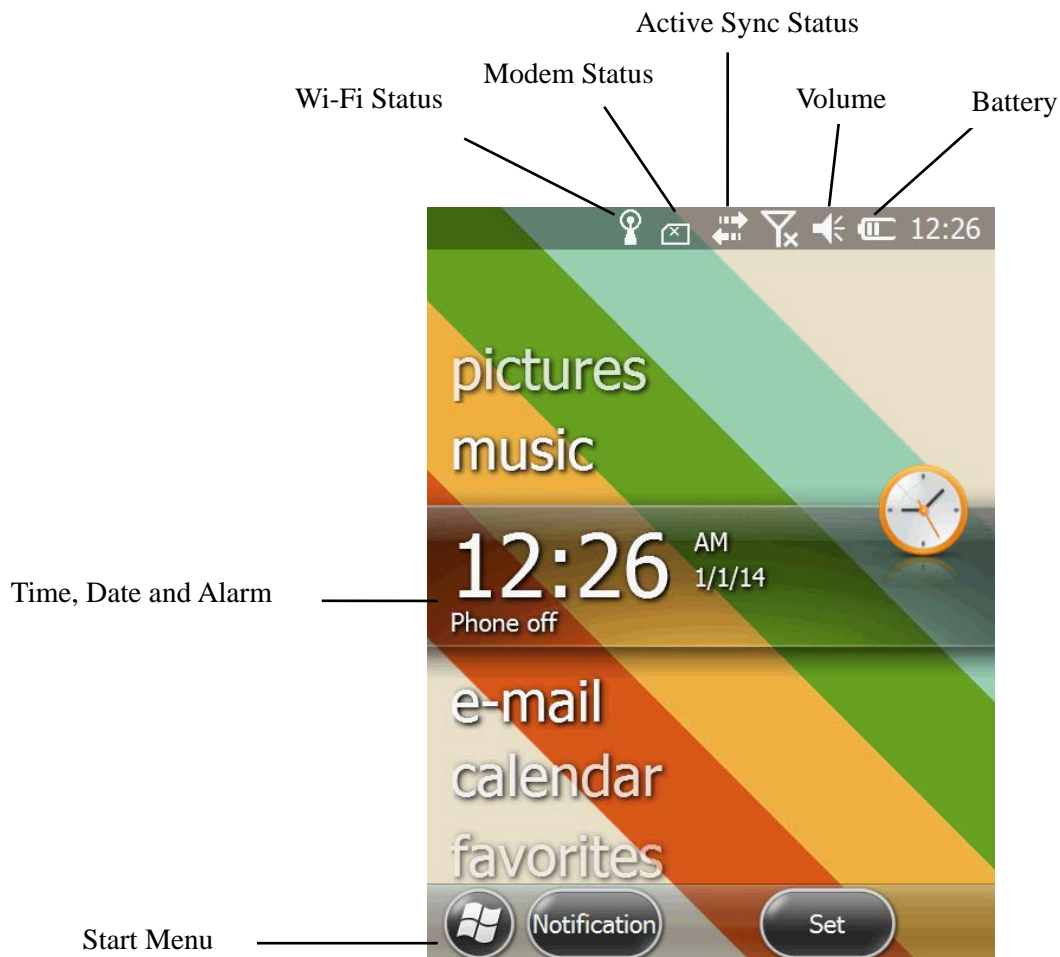
Hardware	
CPU	TI AM3715 1GHz
Memory	512M FLASH, 512M SDRAM
OS	Windows Mobile 6.5 Professional
Wireless	1. Bluetooth 2. WIFI (WLAN 802.11) 3. GPRS
GPS	Ublox The 6th Generation (option)
Wire Transmission	USB 2.0
Display	
Display	3.5" VGA LCD
Resolution	480×640
Touch screen type	Resistive
Camera	
Megapixel	5Mp
Focus	Auto-Focus
Scan Distance	5cm ~ 30cm
Identification Brightness	No less than 13Lx when no fill light, and can identifiable in 0.3Lx with fill light
Extensibility :	
Barcode Module(1D/2D optional)	Newland : EM1300
	Symbol:SE955
	Honeywell : 5100
RFID :	1. 13.56MHz (14443A/B,15693) 2. UHF 900MHz 3. LF RFID (125K,134.2K option)
Extensibility :	The 2 <sup>nd</sup> ID card reader, Fingerprint Recognition, Infrared temperature measurement
RF	
RF Module	WCDMA HSDPA 3.6Mbps
GPRS	GPRS with class 10, GPRS class B。 GPRS with CS-1, CS-2, CS-3, CS-4
Physical	
Size	175mm*78mm*27mm
Battery	4500Mah, 3.7V
Weight Work Environment	420g (include battery) Temperature range: -20℃ ~+50 Humidity range: +5% ~ +95%

# 1. Appearance and Keypad



## 2. Today Screen

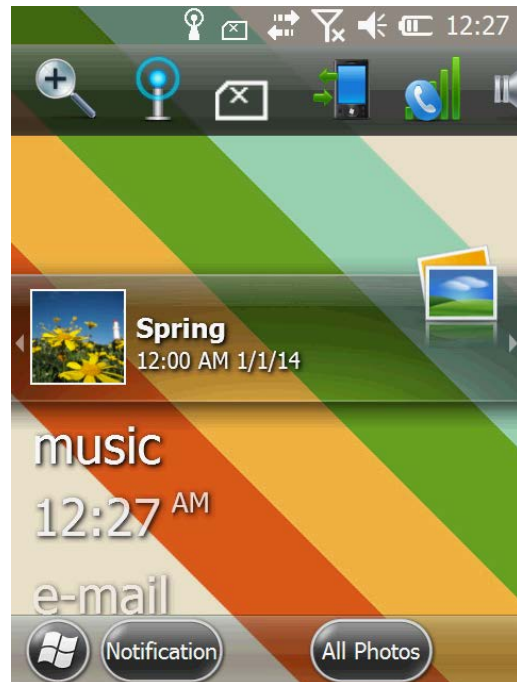
The Today screen of the Windows Mobile 6.5 system shows some important messages such as Time, Status bar, Start menu, Settings, Music, and Email etc (The TT35 device does not support calling and messaging function). Users can open an app or set system by simply touch the screen using the stylus.



### 3. Basics

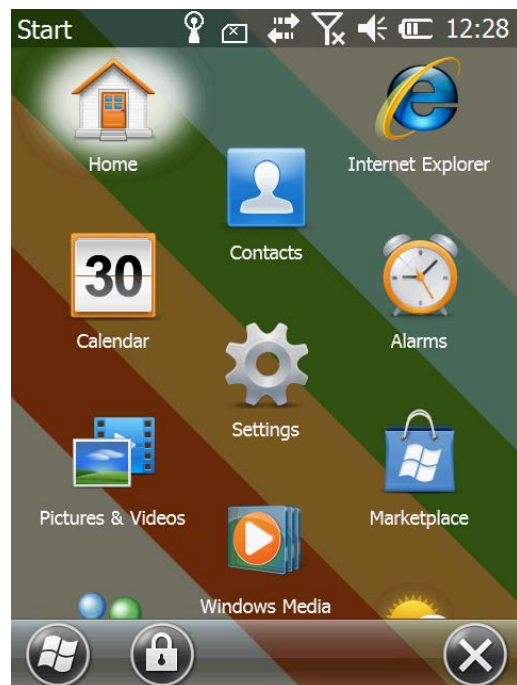
#### 3.1 Status Bar

The quick control menu can be opened by press the top Status bar. And the device Wireless connection, Sync, Volume, Sound, Battery level, and time status are shown in the status bar. It is very convenient that users can manage the wireless connection, volume, battery, date and time by pressing the items.



#### 3.2 Start Menu

Press the Start button on the phone to open the Start menu. The start menu provides the access to the essential features and programs of the device includes IE, Camera, File Explorer, Settings, and Windows Media etc.



### 3.3 Settings

Press the Start button then Settings on the phone to open the Settings screen. The Settings screen gives the user the access to setup Bluetooth, Time, Home, Lock, Power, Connections, and Personal etc.

The following setups are related to:

A. System and Connections.

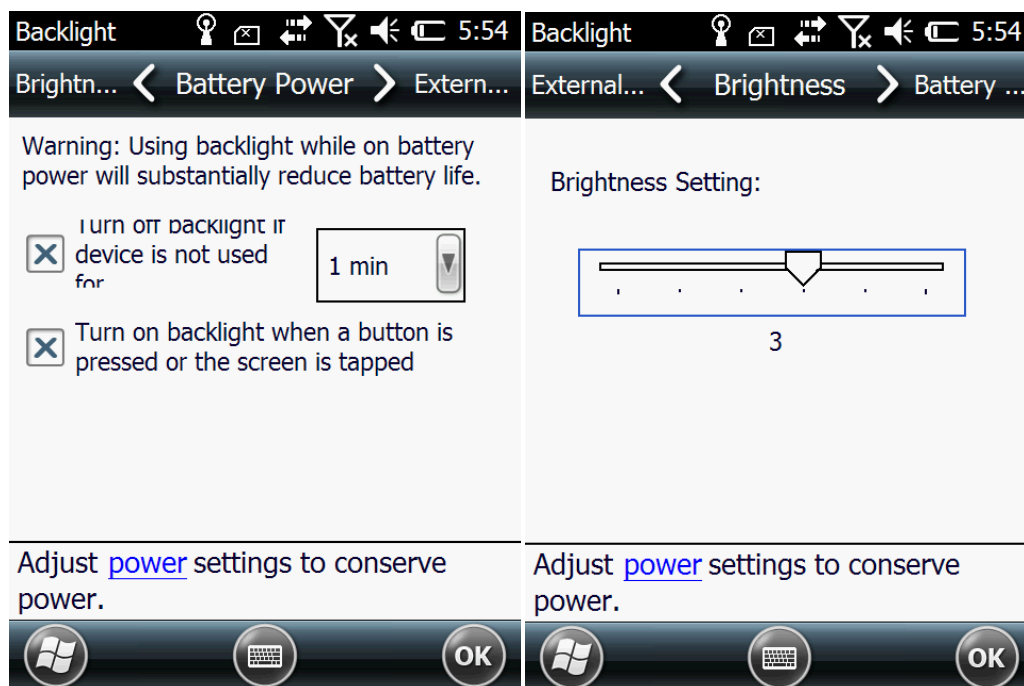
B. System Settings includes Device Info, Remove Programs, Backlights and some function settings.

C. Connections include Wi-Fi, and USB to PC etc.



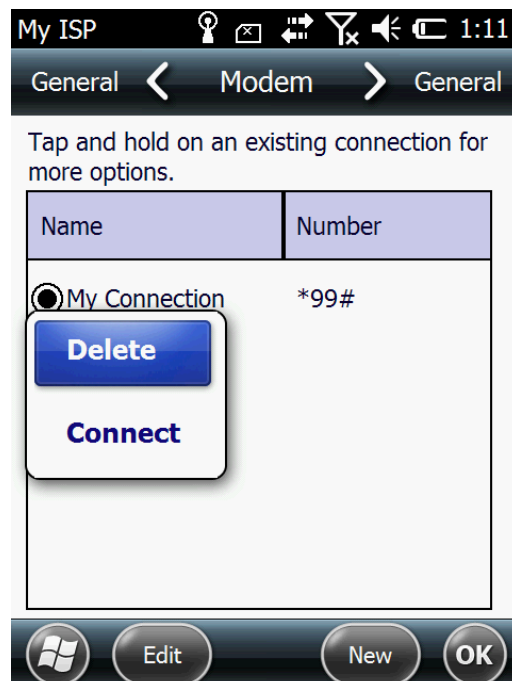
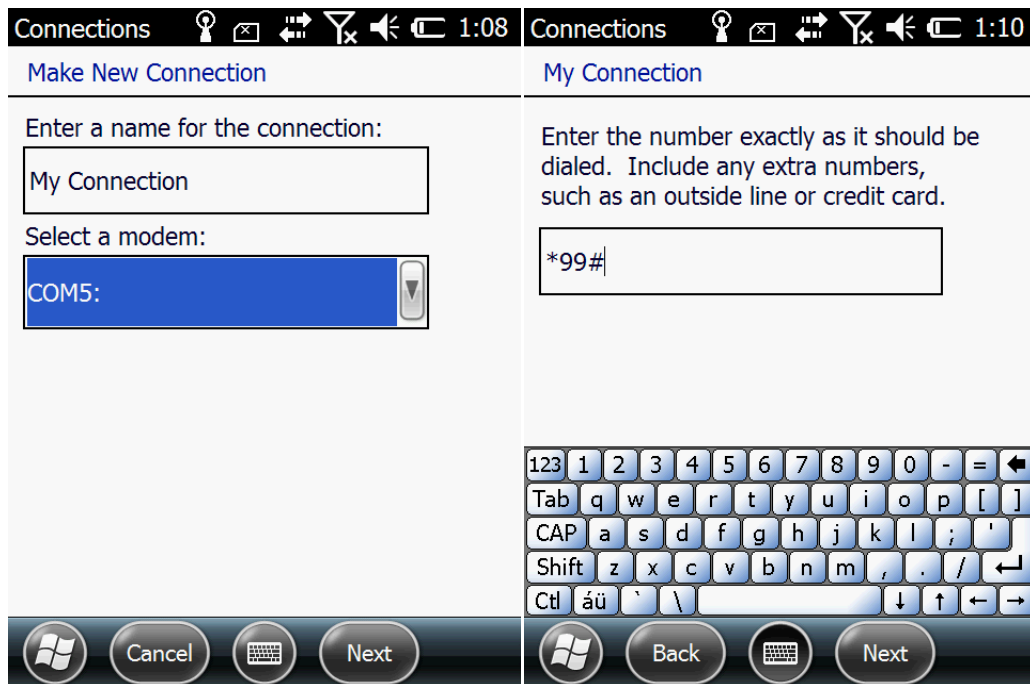
#### 3.3.1 Backlights

Press the Start- Settings-System- Backlights on the phone to open the Backlights screen. Users can setup the time to turn off the backlight if device is not used, when Battery Power is used or External Power is plugged in.



### 3.3.2 Modem Connection

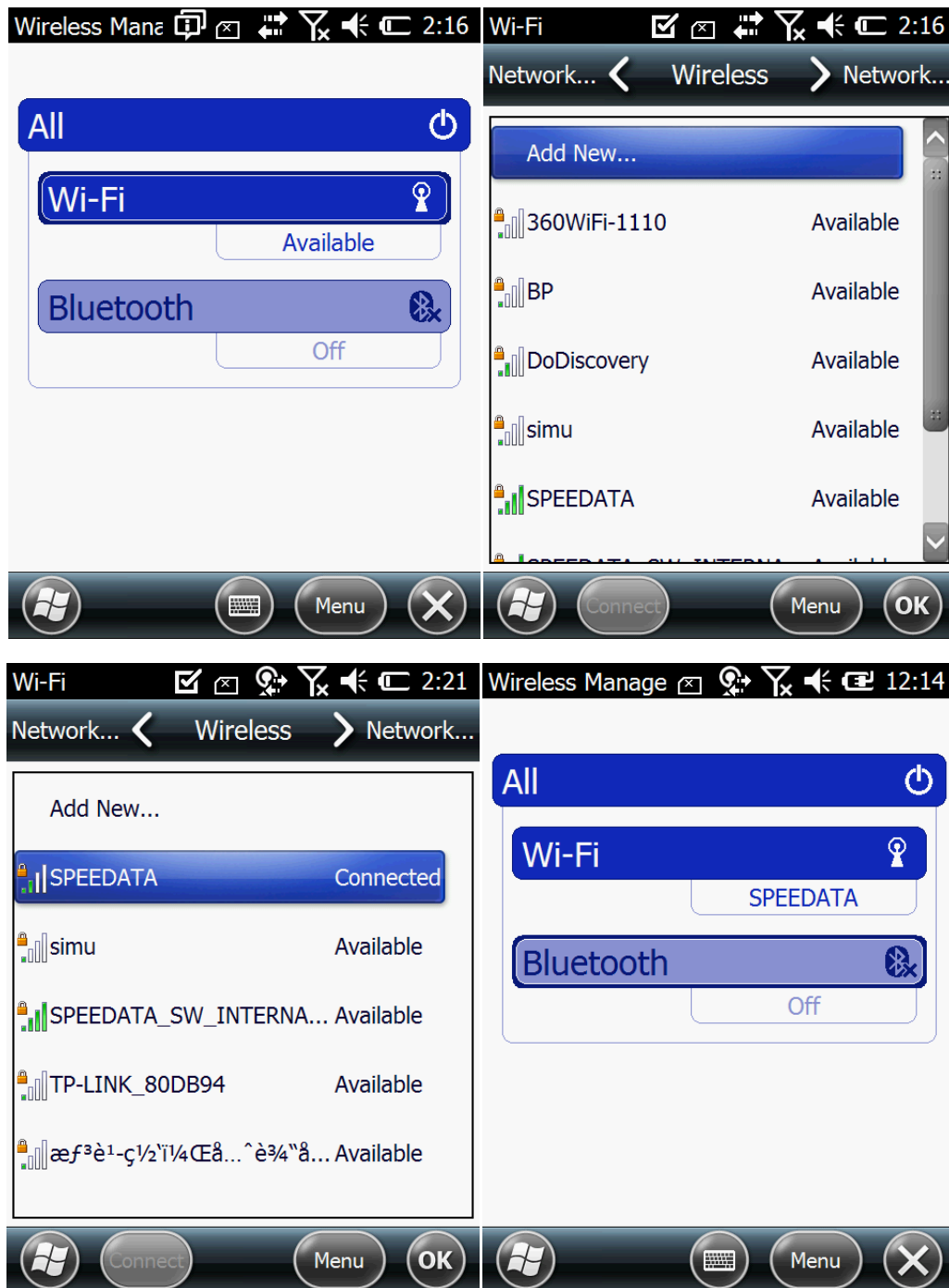
Press the Start- Settings-Connections- Connections on the phone to open the Connections screen. Select add a new modem connection, select COM5 as the modem, then press next. China Telecom card enter '#777', user name 'card', password 'card' then 'Finish'; China Union or China Mobile enter '\*99#', leave user name and password blank then press finish. In the connections screen, select 'Manage existing connections, long press the existing connection more options.





### 3.3.3 Wi-Fi

Press the Start- Settings-Connections- Wireless Manager on the phone to open the Wireless manager screen. Select the Wi-Fi check box to turn Wi-Fi on. The phone will scan for available wireless networks automatically. Tap Wi-Fi on Connections screen, the network names and settings (Open network or secured with WEP) of detected Wi-Fi network are displayed in the Wi-Fi network section. Tap a network to connect. If it is an open network, you will be connected automatically. If it is a secured network with WEP, you can follow the steps to enter the key to access the network.

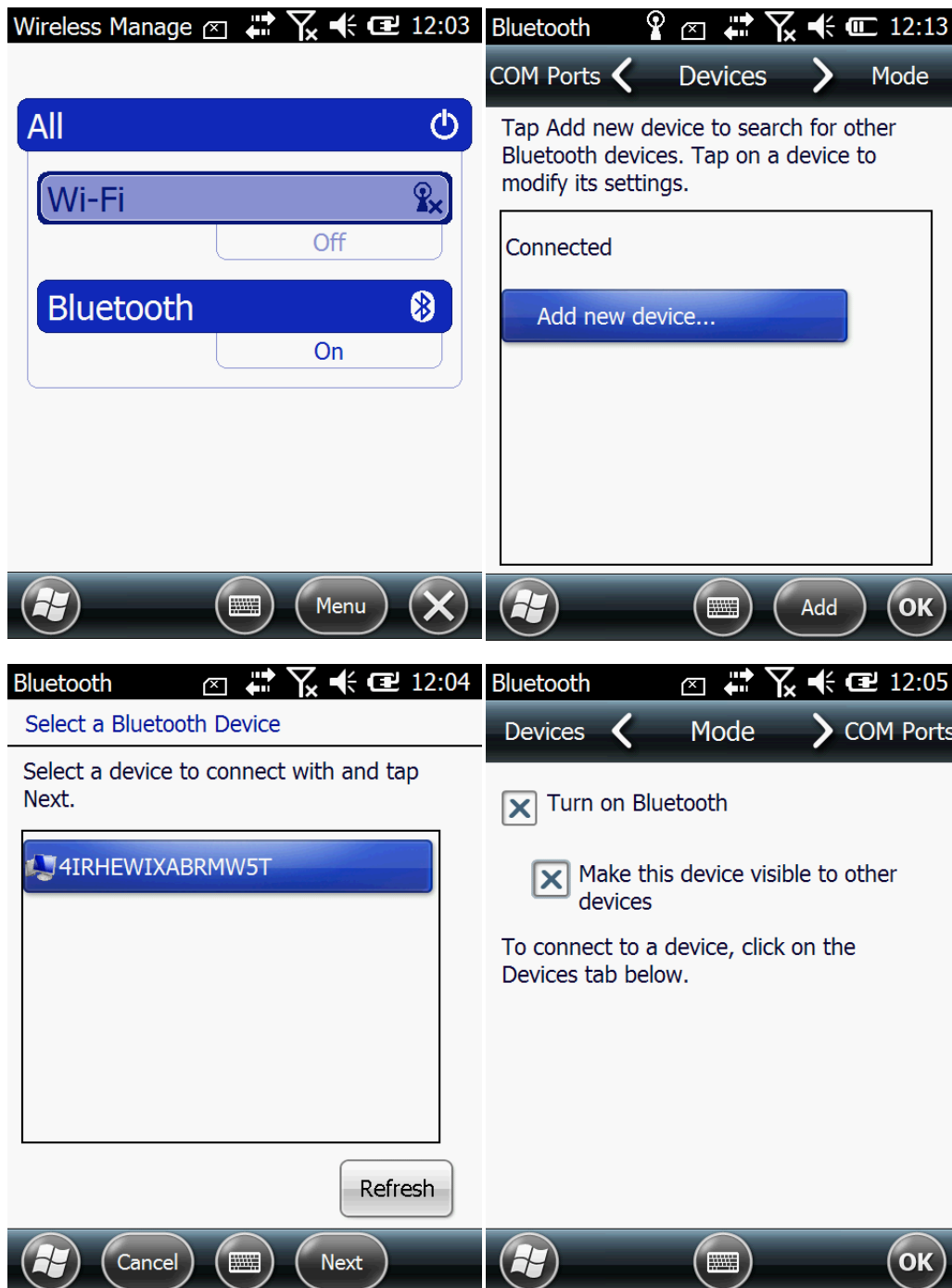




### 3.3.4 Bluetooth

Press the Start- Settings-Connections- Wireless Manager on the phone to open the Wireless manager screen. Select the Bluetooth check box to turn Bluetooth on. Use Start- Settings- Bluetooth to add new device. Press ‘Add new device’ then select the device users to connect and follow the steps to get paired with the device. Users can send data to other devices use Bluetooth. In Mode window, users can check turn on/off Bluetooth and whether make this device visible to other devices.

Press Start- Settings-Connections-Beam, check Receive all incoming beams. The device can receive data from other devices through Bluetooth.



Beam



12:20

## Beam Mode



Receive all incoming beams.



OK

## 4. Special Functions

This terminal device reserves various interfaces and flexible structures that are designed to ensure that it can support various functions and customization demand. Our device can support RS232, I2C, RS485 interface peripherals, can expand other function module, please contact the factory for your special requirement.

## 5. Common Models

Model	Configuration
TT3 5W-S TT35 standard	Standard configuration are :Bluetooth/GPS/GPRS/WIFI/4500mA battery/3.5inch touch screen/WCDMA/charger/data
TT3 5W-NL Infrared 1D barcode scanner	Based on standard configuration. Append Infrared 1D barcode reader which supports Code128, EAN-13, EAN-8, Code39, UPC-A,UPC-E, Codabar, Interleaved 2 of 5, ISBN/ISSN, Code 93.
TT3 5W-SY Laser 1D barcode scanner	Based on standard configuration. Append Laser 1D barcode reader. The reader is SYM BOL SE955.
TT3 5W-HW 2D barcode scanner	Based on standard configuration. Append 1D & 2D barcode reader. The reader is Honeywell 5100.
TT3 5W-R30 (R60) RFID reader and writer	Based on standard configuration. Append 13.56MHz RFID read and write UID Reader,R30—1444 3A/B,R60—R14443/1 5693.
TT3 5W-D6	Based on standard configuration. Append UBLOX GPS module.

## 6. Special Models (Optional)

### 6.1 UHF and LF Modules of TT35

#### 6.1.1 UHF module

RFID reading and writing (Optional). If your device has RFID label reading and writing function, we can provide a RFID demo application. Users can copy the demo from PC to the device use USB cable. Open the application, put the label card within the effective reading range, the application can scan the card and read information such as card type, card number, sector information of the card.

If user wants to develop the RFID application based on our device, please contact the manufacturer to get the source code.

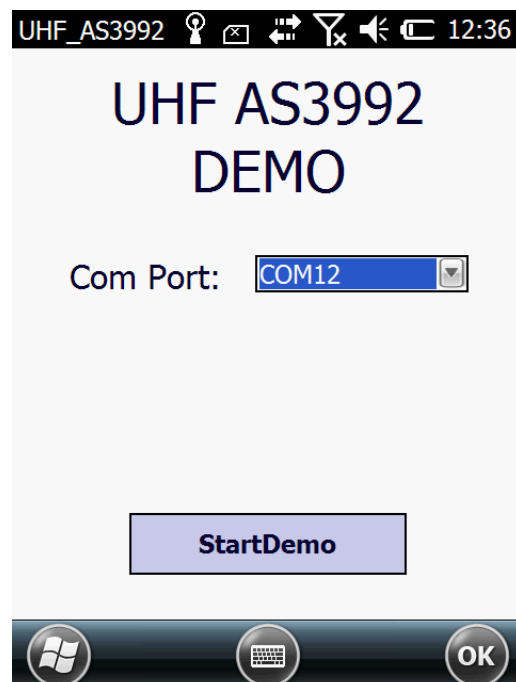
TT35 UHF module is 900 MHz. This device's name is added a "-UHF" based on the name of the common one. For example, if you need 1D Infrared scanner and a UHF module, the model's name should be "TT35W-NL- UHF".



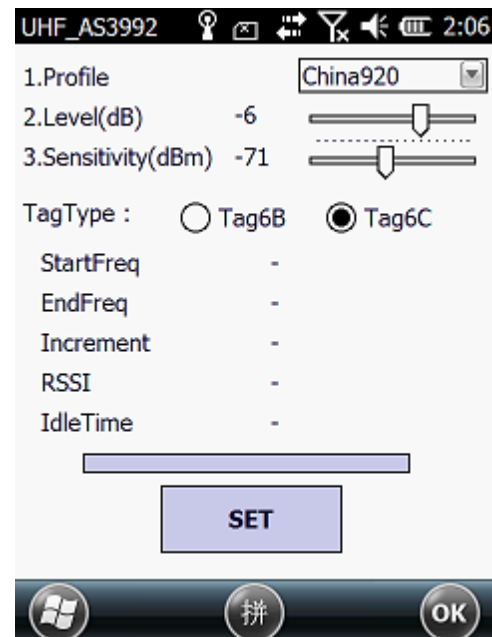
UHF or LF  
label reading  
area

#### 6.1.2 UHF Demo

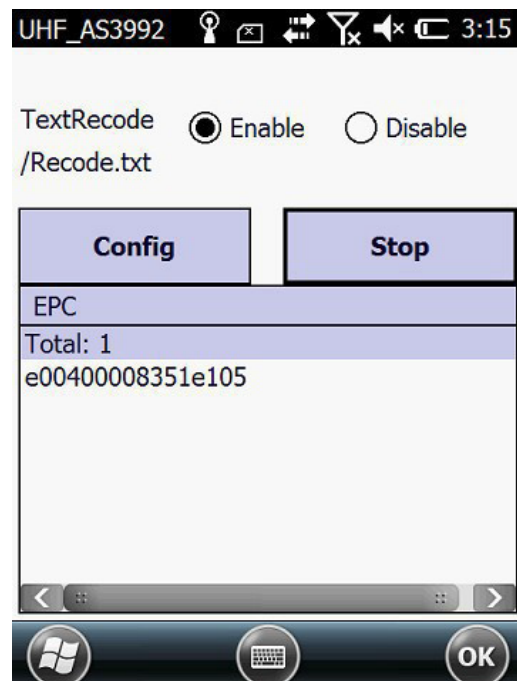
1) Users will find "UHF\_AS3992" Demo program under "File Explorer" - "My Documents". After open it, please set the serial port to "COM12". Click "Start Demo" to start reading label. As the picture shows on the right:



2) In the UHF\_AS3992 setup window, users can set region and reading type. Press 'SET', the label configuration window will appear as figure shows on the right:



3) In the label configuration window, press "Scan" (The 'Scan' button will turn into 'Stop'), and put the card within the effective reading range of the module, the card number will appear in the EPC area. Users can read or write the card by press the selected card number as figure shows on the right.



4) The writing and reading window is shown on the right.

If user wants to develop the RFID application based on our device, please contact the manufacturer for the source code.

UHF\_AS3992

EPC e00400008351e105

Area

Word  Address

Passwd

read and write data

**Read** **Write**

**CardConfig** **Return**

Windows taskbar: Start, Search, OK

### 6.1.3 LF Module

There are two kinds of LF modules for TT35 Products. One is 134.2KHZ, the other is 125KHZ. The name of LF model is add“-LF” based on the common model and please note the frequency of the LF. For example, if you need 1D Infrared scanner and 125KHZ LF, the model should be “TT35W-NL-LF (125K)”.

### 6.1.4 LF Demo

Just like the UHF demo, the ‘LFDemo’ program is under “File Explorer”-“My Documents”. After open it, please set the serial port to “COM12”. Click “Open” to start reading label. As the picture shows on the right:

If user wants to develop the RFID application based on our device, please contact the manufacturer for the source code.

LFDemo

Port  **Open**

ID	NUMBER
----	--------

**Clear** **EXIT**

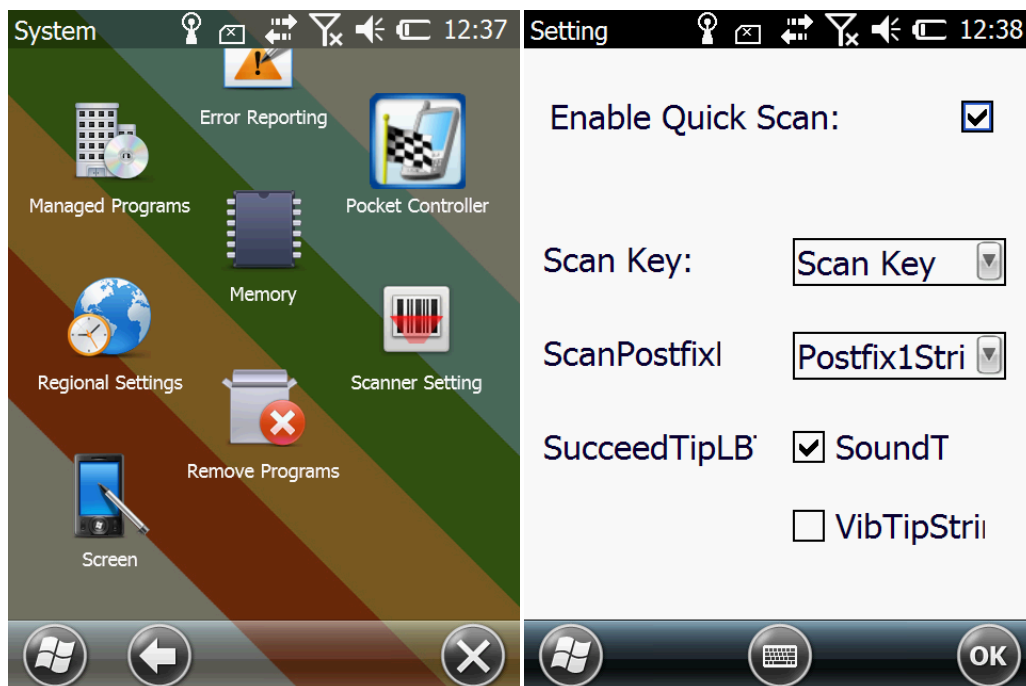
Windows taskbar: Start, Search, OK

## 6.2 TT35 Scan Module (Optional)

### 6.2.1 Quick Scan Settings

If your device have scan module, then you can set a hot key to scan barcode use Scanner Setting under 'Start'-'Settings'-'System'.

Open either an Office Mobile application or Notes to save the barcode or put the input cursor in textbox you want to put the barcode in. Press the key you set for scanning, the scanner will generate a red light, put the barcode within the effective range of the scanner, then the barcode reader can read and the information of the barcode will display in the Office Mobile or Notes.



### 6.2.2 Use Scan Program

According to types of different scanner module, we can provide 1D/2D barcode scan program demo for users.

## 6.3 E27 Thermal Printer

In order to get an integrated Handheld terminal, users can add a thermal printer at the bottom of the TT35, as picture shows below. The device supports text/barcode printing. Paper width is 5.5CM.

Note: The device with printer needs mainboard that supports double core battery and 7.4V double core battery.





## Printer Demo

Go to “File Explorer”—“My Documents” and you can find the printer demo program. Open the demo, as the picture shows on the right:

Set the serial port as “COM13”, then press ‘Close’ (The ‘Close’ button will turn into ‘Open’ and the light on the printer is on). The length, width and type can be set by users. Then input the barcode content in the “Barcode Entry” text box, press “Print”. At this moment, the printer will print the barcode you have inputted in .

If user wants to develop application based on our device, please contact the manufacturer for the source code.

Note: The serial port numbers of all modules are not unique or fixed, when you have our device in your hand, our sales manager will inform you the serial port of the peripheral module (GPS, scanner, RFID etc.) for your redevelopment.

## **7. Service and Technical Support**

Service Tel:

+86-010-62984250 Mr. Ji, Ms. Wei

Technical Support Tel:

+86-13522109451 Mr. Tian

+86-18601212948 Mr. Wu