



**Panchip Microelectronics Co., Ltd.**

## **panchip 2.4g ota tool user's guide**

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**\*REVISION HISTORY\***

[illegible]

# 1.Summarize

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PANCHIP 2.4G chip OTA tool.

# 2.OTA tool

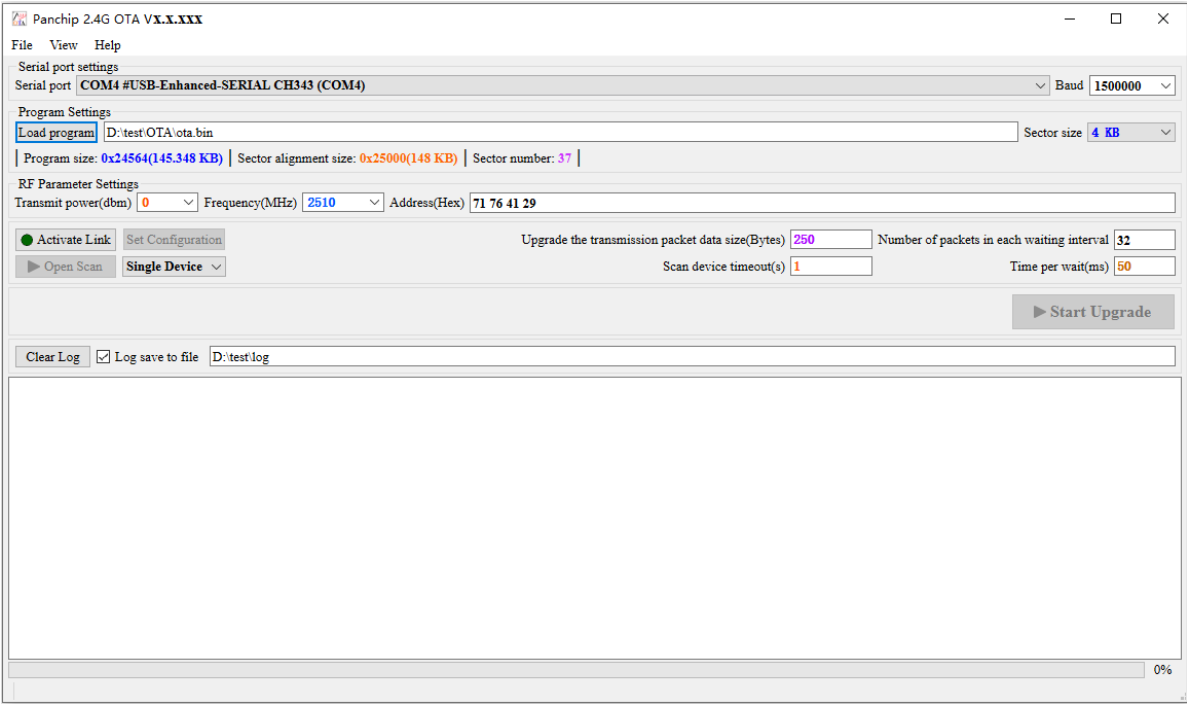


Figure 2-1 OTA tool interface

Figure 2-1 shows the OTA tool page.

## 2.1.Menu bar

The menu bar has three functions: **File**, **View**, and **Help**. As shown in Figure 2-1-1.

**File** **View** **Help**

Figure 2-1-1 menu bar

### File

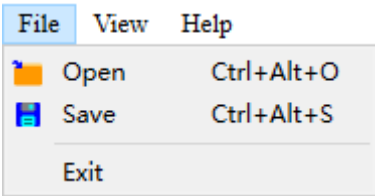


Figure 2-1-1-1 File menu

The file menu is shown in Figure 2-1-1-1, including **Open**、**Save**、 and **Exit**.

**Open:** To open the load saved profile to the interface function.Shortcut key: **Ctrl + Alt + O**.

**Save:** To save the current interface functionality to a file..Shortcut key: **Ctrl + Alt + S**.

**Exit:** is the exit tool.

## View

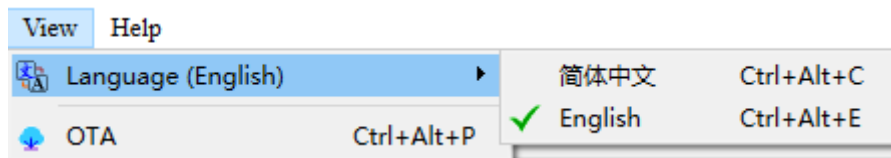


Figure 2-1-2-1 View menu

The display menu is shown in Figure 2-1-2-1, including language mode display **简体中文**, **English**, functional interface display **OTA**.

Language pattern display:

**简体中文** : For setting the screen display in simplified Chinese. Shortcut: **Ctrl + Alt + C**.

**English** : This is the English language for the interface. Shortcut: **Ctrl + Alt + E**.

Functional interface display:

**OTA** : Display for switching to OTA interface. Shortcut: **Ctrl + Alt + P**.

The default interface is one, no need to select.

## Help

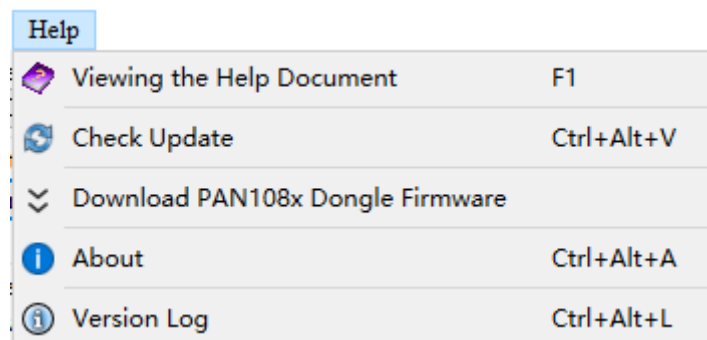


Figure 2-1-3-1 Help menu

The help menu is shown in Figure 2-1-3-1 and includes \*\* View help documentation , Detect version updates , About \*\*, etc.

**Viewing the Help Documentation** : To open, view help documentation. Shortcut: **F1**.

**Check updates** : Version detection for communication with our servers. Successful detection can be used for version **download** and version **upgrade** and other functions. Shortcut: **Ctrl+Alt+V**.

**Download PAN108x Dongle Firmware** : Download the latest firmware program corresponding to Dongle for PAN108x chip that supports 2.4G OTA from our server through the link.

**About** : To see information about the current tool. Shortcut: **Ctrl+Alt+A**. This is shown in Figure 2-1-3-2.

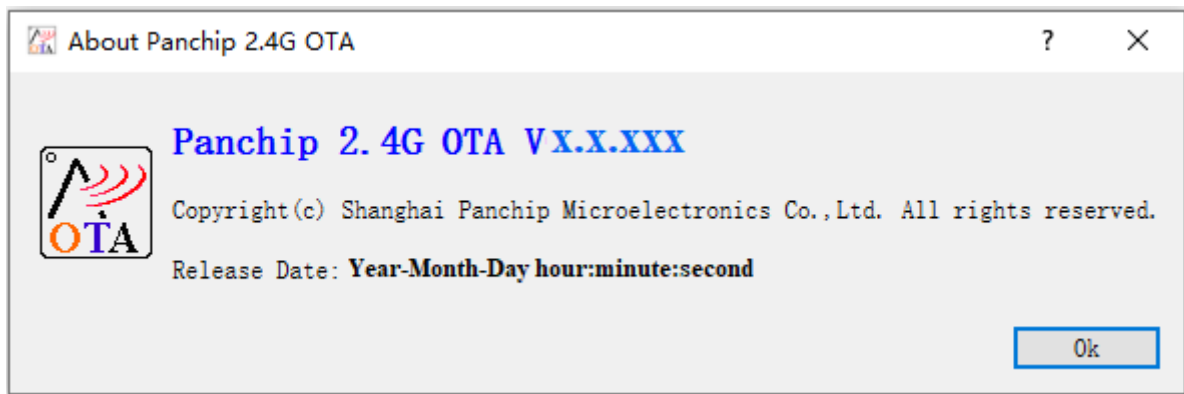


Figure 2-1-3-2 Abort

**Version Log** : To view version logs, and support download history link function. Shortcut key: **Ctrl+Alt+L**. As shown in Figure 2-1-3.



Figure 2-1-3-3 Version Log

## 2.2.Status bar

The status bar at the bottom of the function interface shows the status function.

## 2.3.OTA interface

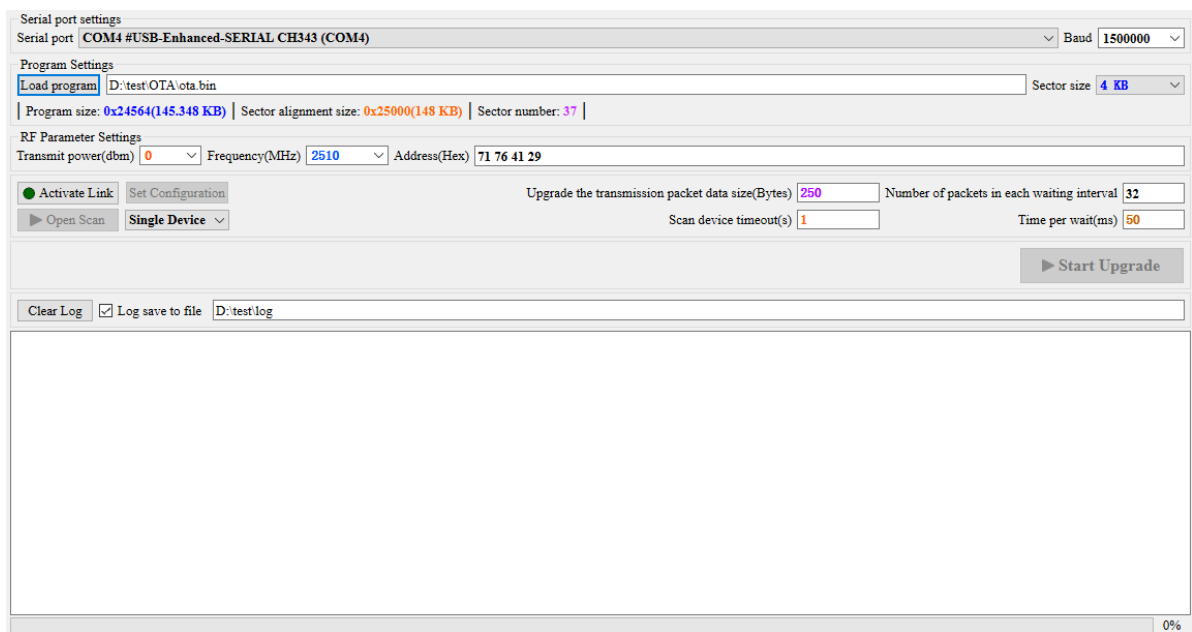


Figure 2-3-1 OTA interface

Figure 2-3-1 shows the OTA interface.

### 2.3.1.Serial port settings

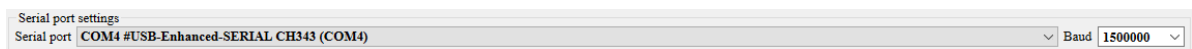


Figure 2-3-1-1 Serial port settings

As shown in Figure 2-3-1-1, it is the serial port setting when the communication is serial communication in RF test.

**Serial port:** To set the communication serial port number. When **click**, the serial device will be automatically queried and the queried serial number will be added to the optional serial number drop-down list. The selected is the serial port number of the setting.

**Baud:** Is to set the baud rate of serial communication. When selecting **Customize**, any value from 110Hz to 2000000Hz can be entered manually. default value: 1500000.

### 2.3.2.Program settings



Figure 2-3-2-1 Program settings

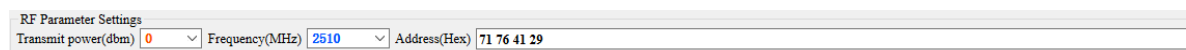
As shown in Figure 2-3-2-1, the upgrade procedure Settings during OTA upgrade.

**Load program:** Load OTA upgrade file. The supported loader file format is **\*.bin**.

**Sector size:** Is the program sector size when OTA download. The default value is **4 KB**.

**Program information display:** To display information about successfully loaded program files, as well as program information when aligned by sector size.

### 2.3.3.RF Parameter Settings



RF Parameter Settings		
Transmit power(dbm)	Frequency(MHz)	Address(Hex)
0	2510	71 76 41 29

Figure 2-3-3-1 RF Parameter Settings

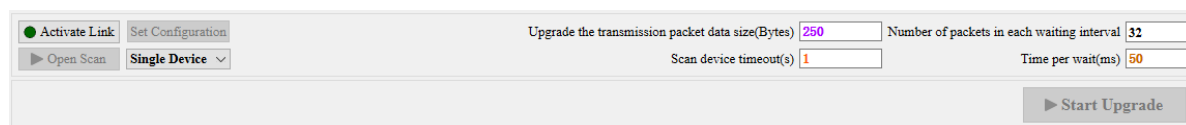
Figure 2-3-3-1 shows the RF parameter setting function screen.

**Transmit power:** To set the RF transmitting power of the OTA. The value ranges from **-10 to 9** dbm.The default is 0 dbm.

**Frequency:** To set the RF frequency of OTA. The value ranges from 2402 MHz to 2510 MHz.The default is 2510 MHz.

**Address:** To set the address for OTA RF communication, the address data is 4 bytes of data.The default value is 0x71 0x76 0x41 0x29.

### 2.3.4.Control function



Control Function	
Activate Link	Set Configuration
Open Scan	Single Device
Upgrade the transmission packet data size(Bytes)	Number of packets in each waiting interval
250	32
Scan device timeout(s)	Time per wait(ms)
1	50
Start Upgrade	

Figure 2-3-4-1

Figure 2-3-4-1 shows the control function screen.

**Activate Link :** When not started, clicking will open the serial port connection according to the serial port Settings. If the connection is successfully opened, the RF parameter configuration will be removed. When started, clicking will stop the function being performed and then close the serial port connection.

**Set Configuration :** To send the information set for RF parameters. This is enabled only when the connection has been successfully started, and the configuration can be set only when the connection is idle.

**Upgrade the transmission packet data size :** Is to set the size of upgrade packet data for each transmission when performing OTA upgrade. The default is 250 bytes.

**Number of packets in each waiting interval :** Is set to wait once after each transmission of the specified packet when performing OTA upgrade. The default is one wait for 32 packets.

**Time per wait :** Is the waiting time after each specified packet transmission in the OTA process. Unit **ms**. The default is 50 ms.

**Open Scan :** When scanning is not started, click to enter the scanning device. When scanning, click to exit the scanning device. This is enabled only when the connection has been successfully started, and the configuration can be set only when the connection is idle.



**Scan Mode** : To set the scanning device mode. Support **Single Device**, **Multi-Device** scanning two modes.

**Single Device** :During the scan, if a device is detected within the timeout period, the scan automatically exits. Otherwise, the scan exits until the timeout occurs.

**Multi-Device** :During scanning, the device is scanned until it times out or clicks to exit the scan.

**Scan device timeout** : To set the timeout period for scanning devices. Unit **s**.

**Start Upgrade** : When not started, clicking will enter to start OTA upgrade. When upgrading, clicking will exit OTA upgrade. This is enabled only when the connection has been successfully started, and the configuration can be set only when the connection is idle.

## 2.3.5.Log

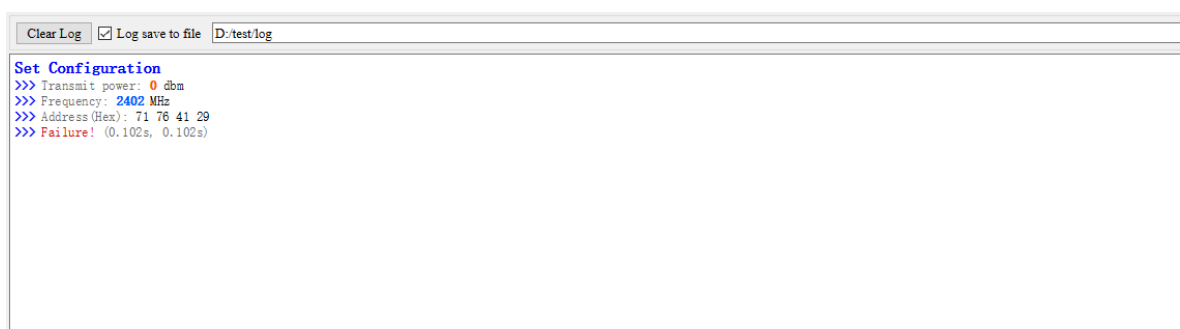


Figure 2-3-5-1 Log display and output Settings

The log display and output screen is displayed, as shown in Figure 2-3-5-1.

**Clear Log** : When clicked, the log display in the log display box will be cleared.

**Log save to file** : If this parameter is selected, the output log data is saved to a file in the specified directory.

**Log display frame** : Indicates the log output display box.

## 2.3.6.Progress

Indicates the progress.