



# **VA8801 Series**

*Rev. 1.0.0*

**DFU TOOL**

**AI SoC**

*fitipower integrated technology Inc.*

**VA8801 DFU TOOL**

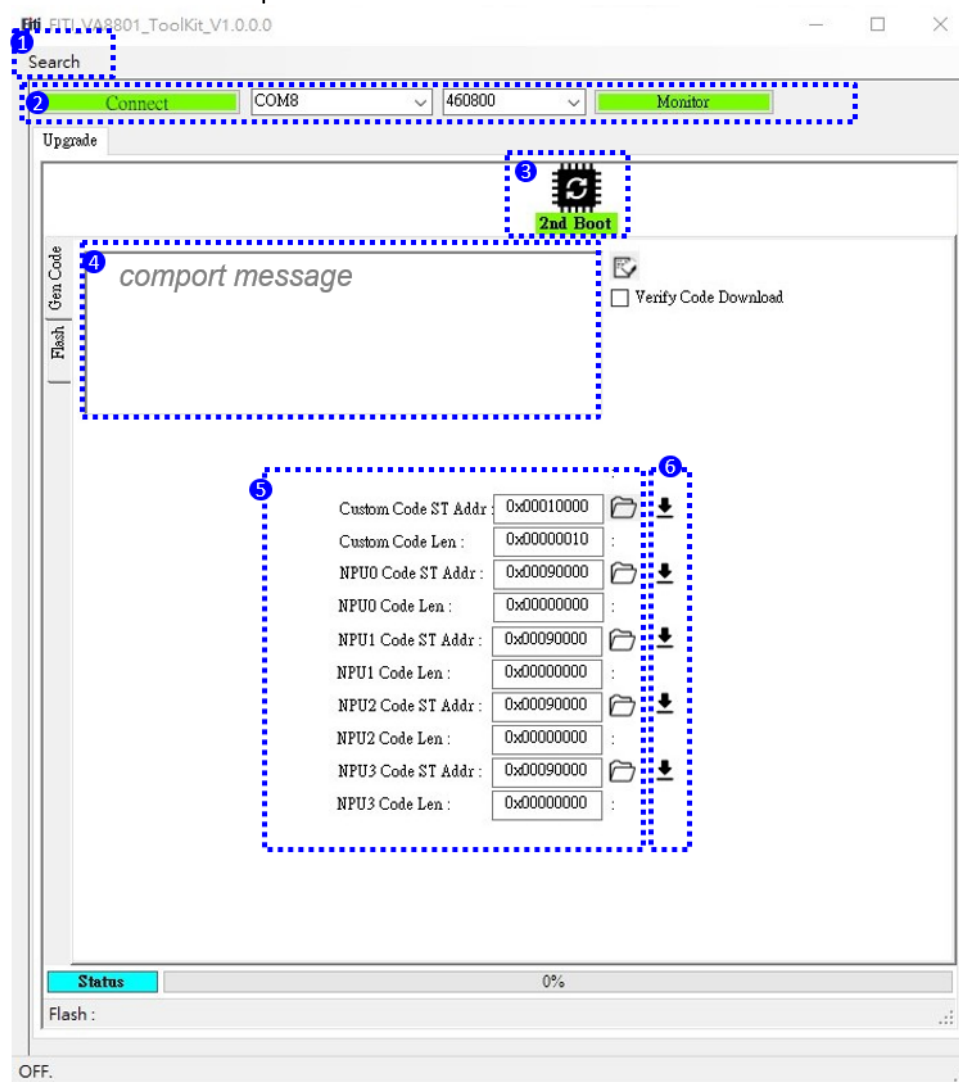
*VA8801 DFU TOOL 1*

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## 1. VA8801 TOOLKIT

FITI VA8801 TOOLKIT provides DFU user interface.



Step	Description
1	Click search to search for UART3 comport.
2	Click Connect after the correct VA8801 UART3 comport is selected and the baud rate is configured at 460800.
3	<p>The green 2nd Boot icon indicates that the second bootloader has been entered.</p> <p><b>How to enter second bootloader.</b></p> <p>When VA8801 is in upgrade mode, click the 2nd Boot icon to upgrade the second bootloader.</p> <p>Please refer to <b>How to enter upgrade mode</b> and <b>How to download second bootloader</b>.</p>
4	The comport message will be displayed on the page.
5	Click the open file icon to open the binary file.
6	Click the download icon to start the DFU download.

## 2. SETUP HARDWARE

### 2.1. Boot setup

Before starting the Boot operation, configure the Boot pins of VA8801 as Boot setup, and then reset.

Boot Pins	Boot setup	Normal setup
GPIO1.[5]	Low	Low
GPIO1.[2]	High	Low

#### VA8801 demo kit (VA8807\_SK68\_TYPE1\_DDR2\_EC01)

##### Boot mapping

GPIO1.[5]: JPIO\_V0 pin-1

GPIO1.[2]: JPIO\_7 pin-1

##### Reset

RSTN switch

After completing Boot operation, configure the Boot pins of VA8801 as Normal setup, and then reset to enter normal mode.

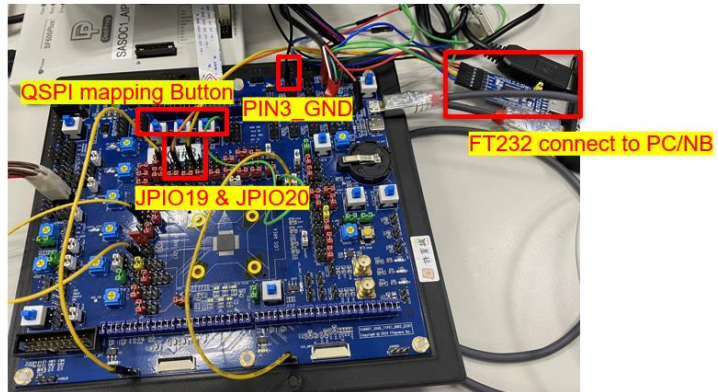
### 2.2. Setup the comport

Connect UART3 of VA8801 to PC as comport.

FT232\_RX connect to JPIO\_19\_Pin9(UART3\_TX)

FT232\_TX connect to JPIO\_20\_Pin7(UART3\_RX)

FT232 GND connect DVK GND



### 2.3. How to enter upgrade mode

Step	Description
1	Configure the Boot pins of VA8801 as Boot setup.
2	Configure the QSPI of VA8801 as QSPI N/A setup.
3	Setup the comport and run VA8801 TOOLKIT.
4	Reset VA8801, then "Enter upgrade mode." shall be displayed in the comport message box on the VA8801 TOOLKIT.
5	Configure the QSPI of VA8801 as QSPI256 setup.

#### VA8801 demo kit (VA8807\_SK68\_TYPE1\_DDR2\_EC01)

##### QSPI mapping Button

Switch	QSPI256 setup	QSPI8 setup	QSPI N/A setup
SW_QIO0IO1	Up	Down	Up
SW_QIO2IO3	Up	Down	Up
SW_QSCLK	Up	Down	Down

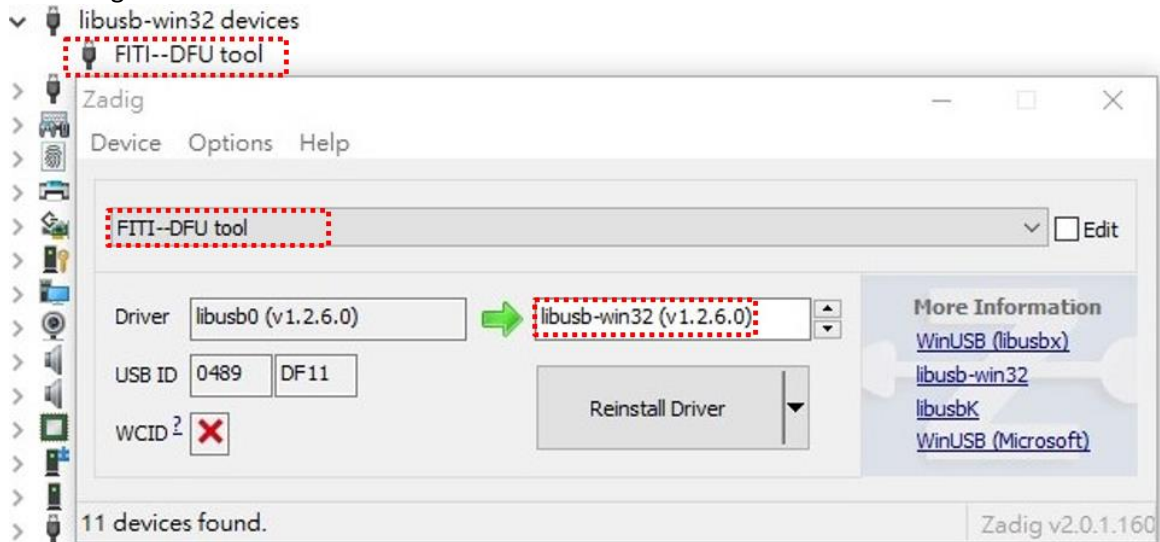
#### 2.4. How to download second bootloader

Step	Description
1	Enter upgrade mode. Please refer to <b><i>How to enter upgrade mode.</i></b>
2	Click 2nd Boot icon on the VA8801 TOOLKIT to download second bootloader.
3	Reset VA8801 and enter second bootloader.

#### 2.5. How to install drivers

Connect the USB of VA8801 board to PC.

Use Zadig software to install the driver to libusb-win32.



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## 3. REVISION HISTORY

Revision	Content	Date
1.0.0	First release	2024/05/22

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