FAQ-UPD-005: How to upgrade OS and firmware for the eMMC 8GB UA-5200 series FM 1.4.0.0 or later version?

ICP DAS UA series provides new functions! Please upgrade the OS to provide more complete services.

Note:

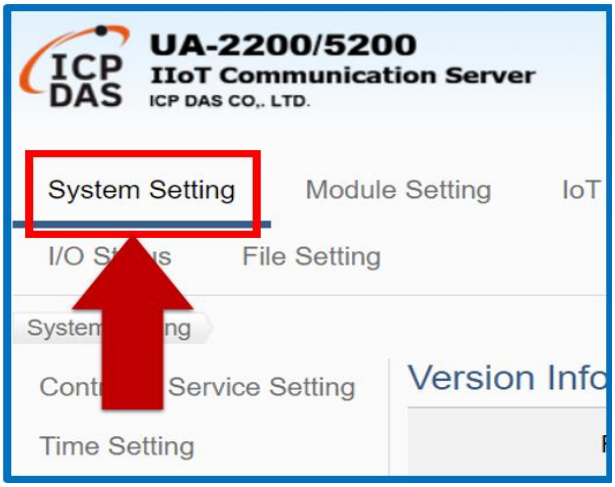
This FAQ applies to the UA-5200 series eMMC 8GB version (refer to Section 2: Check if the UA-5231 can upgrade the OS?). If the [Flash Information] is "eMMC Flash", you can upgrade the OS and Firmware (v1.4.0.0 or later).

When does the OS need to upgrade?

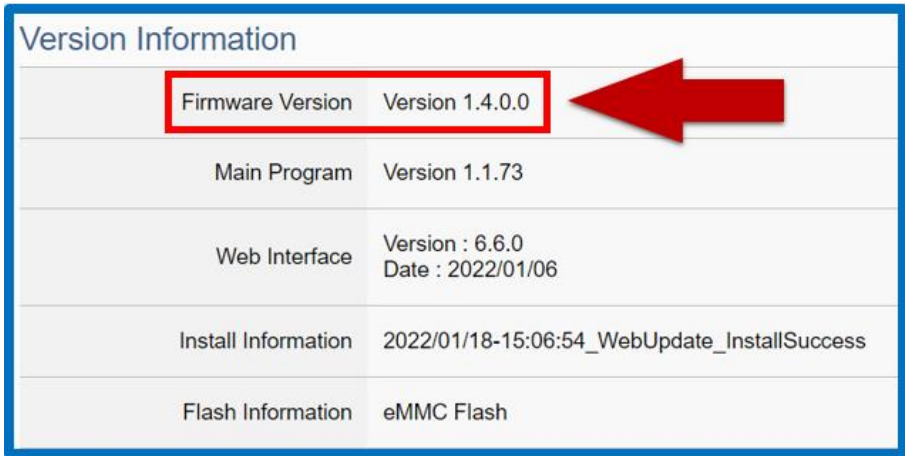
When the UA needs to update the Firmware to a version above 1.4.0.0, but the current version is lower than 1.4.0.0, it needs to upgrade the OS and the Firmware.

1. Check the Firmware Version

Log in the UA-5200 UI webpage, and click 【System Setting】.



Check the [Firmware Version] in [Version Information]. If it is not up to V.1.4.0.0 and you want to upgrade to V.1.4.0.0 or above, please go to the next step.



2. Check If the UA-5231 Can Upgrade the OS?

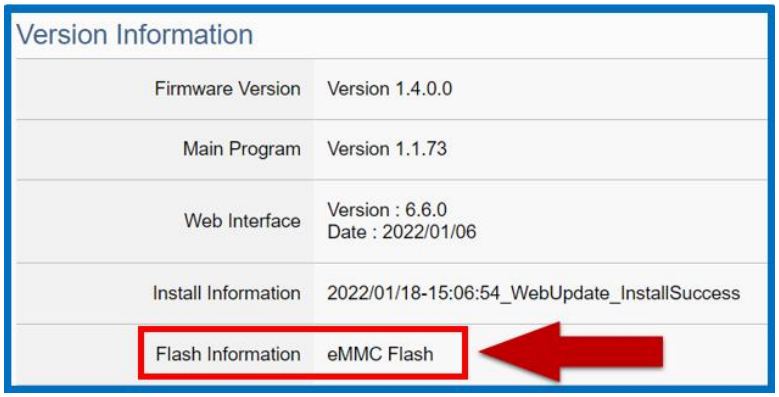
(1) Check the casing mark to confirm if it is the UA-5200 8GB eMMC Flash hardware version?

Check if the front casing of the UA-5200 series with the mark "**Rev B**"?

If there is, its Hardwell version is 8GB eMMC Flash, firmware version 1.4.0.0 or later.

(2) If there is no mark, check the UI Webpage to see the firmware and Flash information.

Enter the UA-5200 series UI webpage, click [System Setting]. Check the [Flash Information] in [Version Information].



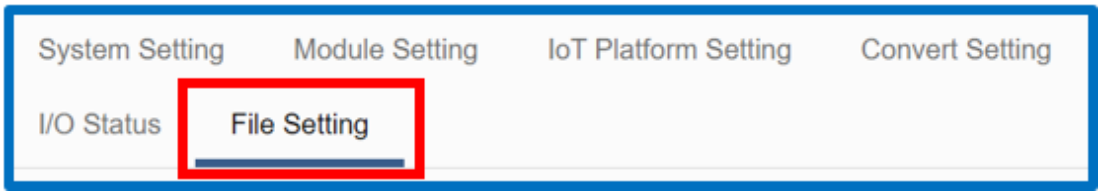
If the [Flash Information] is "eMMC Flash", you can upgrade the OS and Firmware to the v1.4.0.0 or later version.

3. How to Update Firmware by Re-burning the OS?

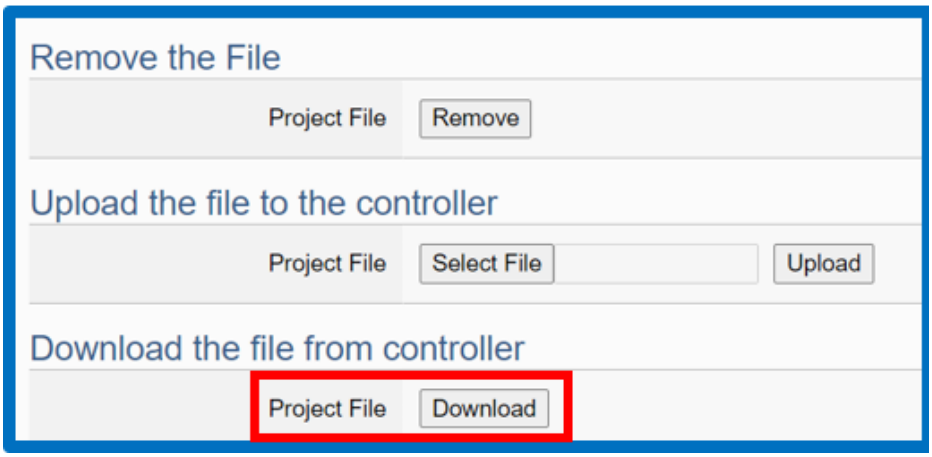
This method needs to update the bottom layer OS. If there is a project in the UA-5200 controller, please **backup and save the project before re-burning the OS**.

3.1. How to Back-up the Project File?

After logging in the UA web UI, click the 【File Setting】 function.



Click the【Download】button as below, and save the project file to the folder you want.



3.2. Burn the Upgrade File into a MicroSD Card

(1) Download the UA-5200 series **imgc file (zip file of OS and firmware)** from the webpage: https://www.icpdas.com/en/download/show.php?num=1135&nation=US&kind1=&model=&kw=ua-5231

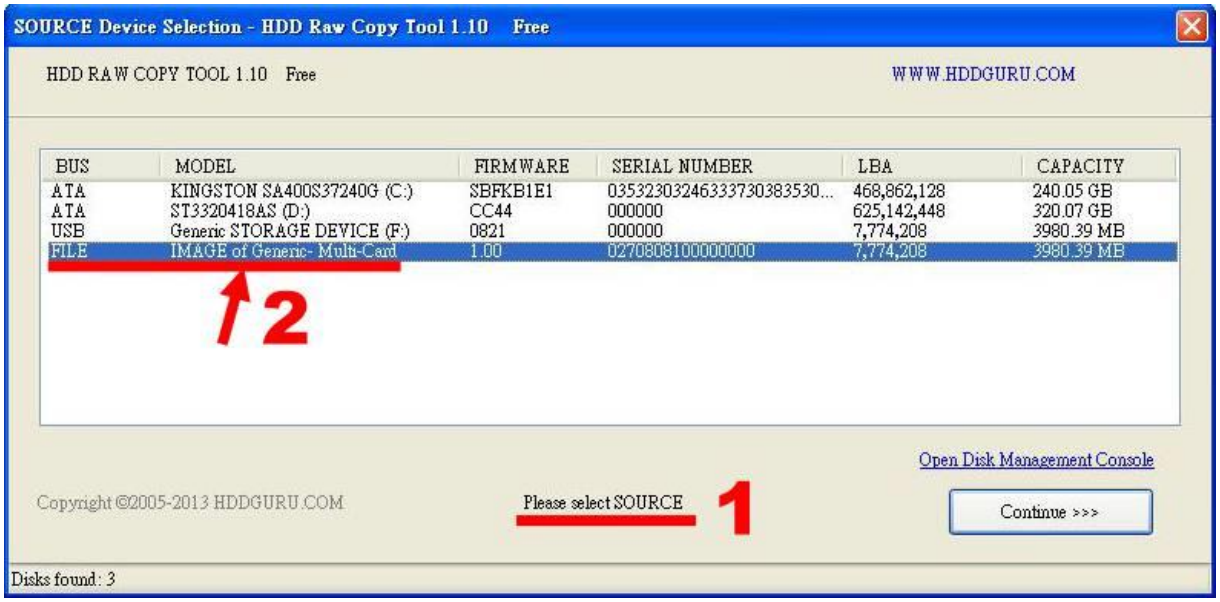
(2) Download the burning software **HDD-Raw-Copy-Tool** from the website: https://hddguru.com/software/HDD-Raw-Copy-Tool/

(3) After powering off, remove the MicroSD card of the UA-5200 series (the location of the MicroSD card is as shown below)

Insert the MicroSD card into the card reader on PC/NB **(Note: Please use UA-5200 series MicroSD card)**

- Run the burning software: HDDRawCopy1.10Portable
- The message shows on the bottom In the “Select SOURCE” screen: Please select SOURCE
- Click the FILE item (last one) FILE IMAGE of Generic- Multi-Card
- Select the downloaded file for burning.

  The screen displays as follows

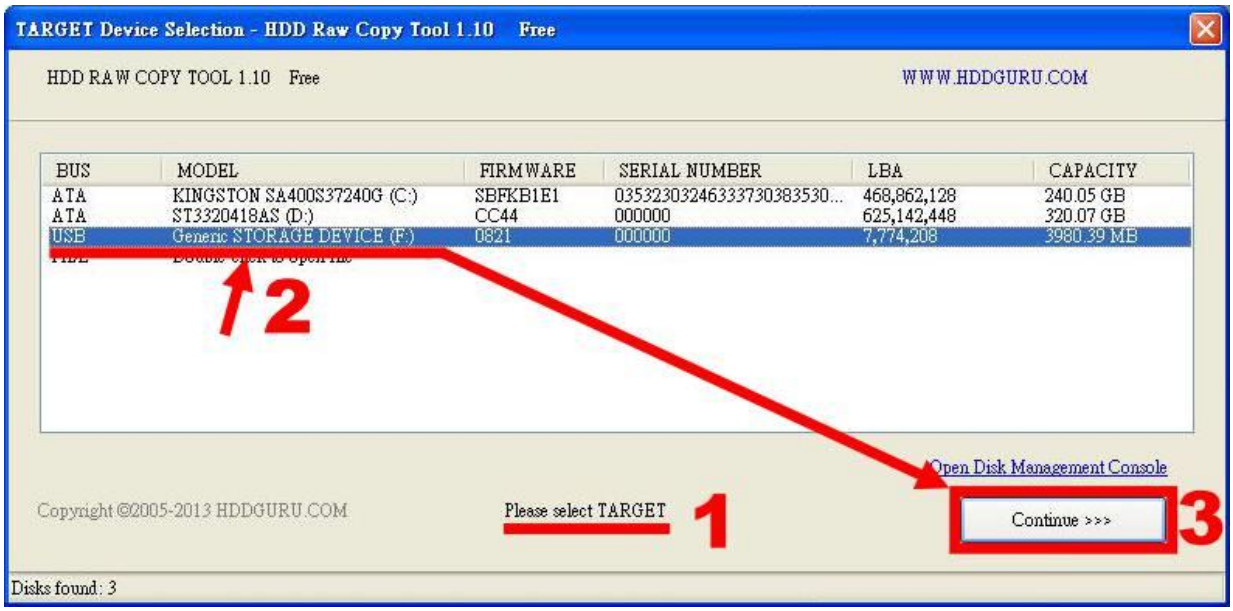


- Click the “Continue” button.

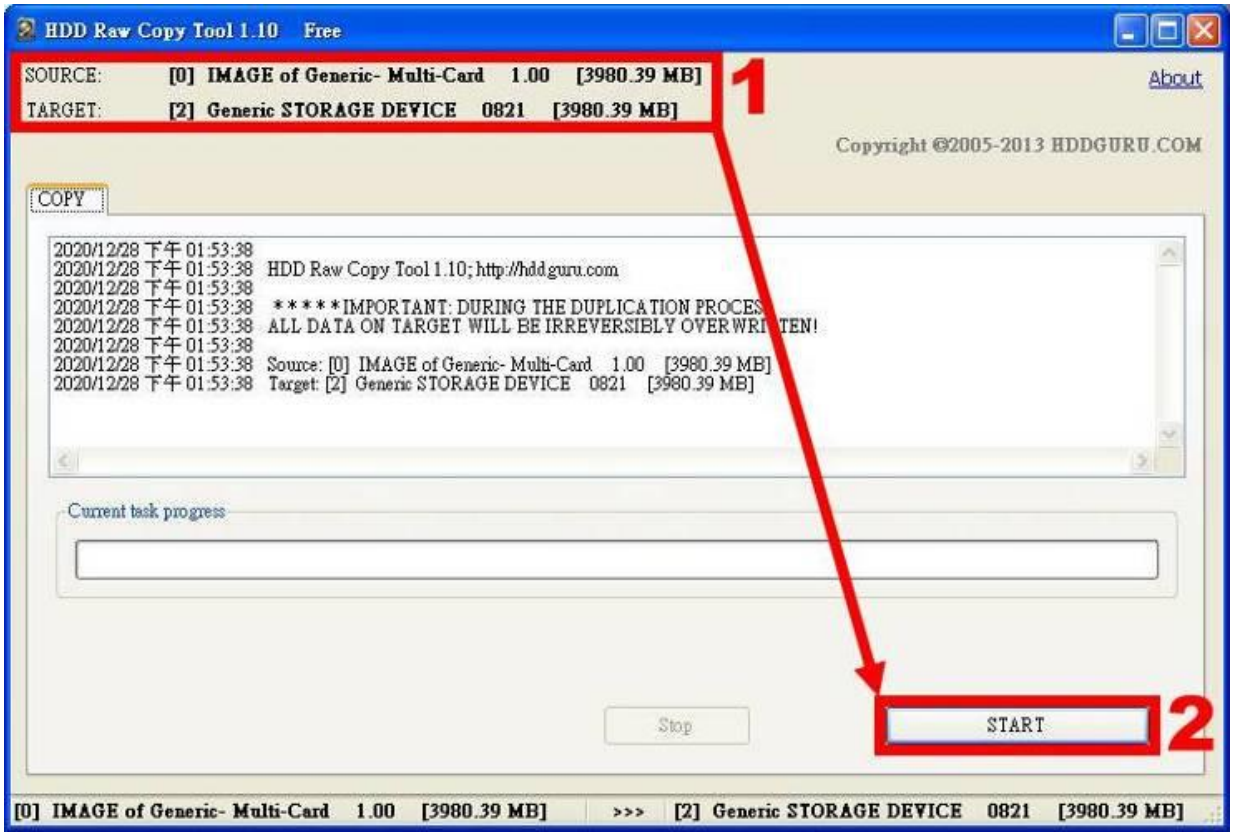
(4) Select the burning device

- The message shows on the bottom in the “select TARGET” screen: “Please select TARGET”.
- Click “USB” item as the TARGET: USB Generic STORAGE DEVICE (F:)
- Click “Continue” button.

  The screen displays as follows



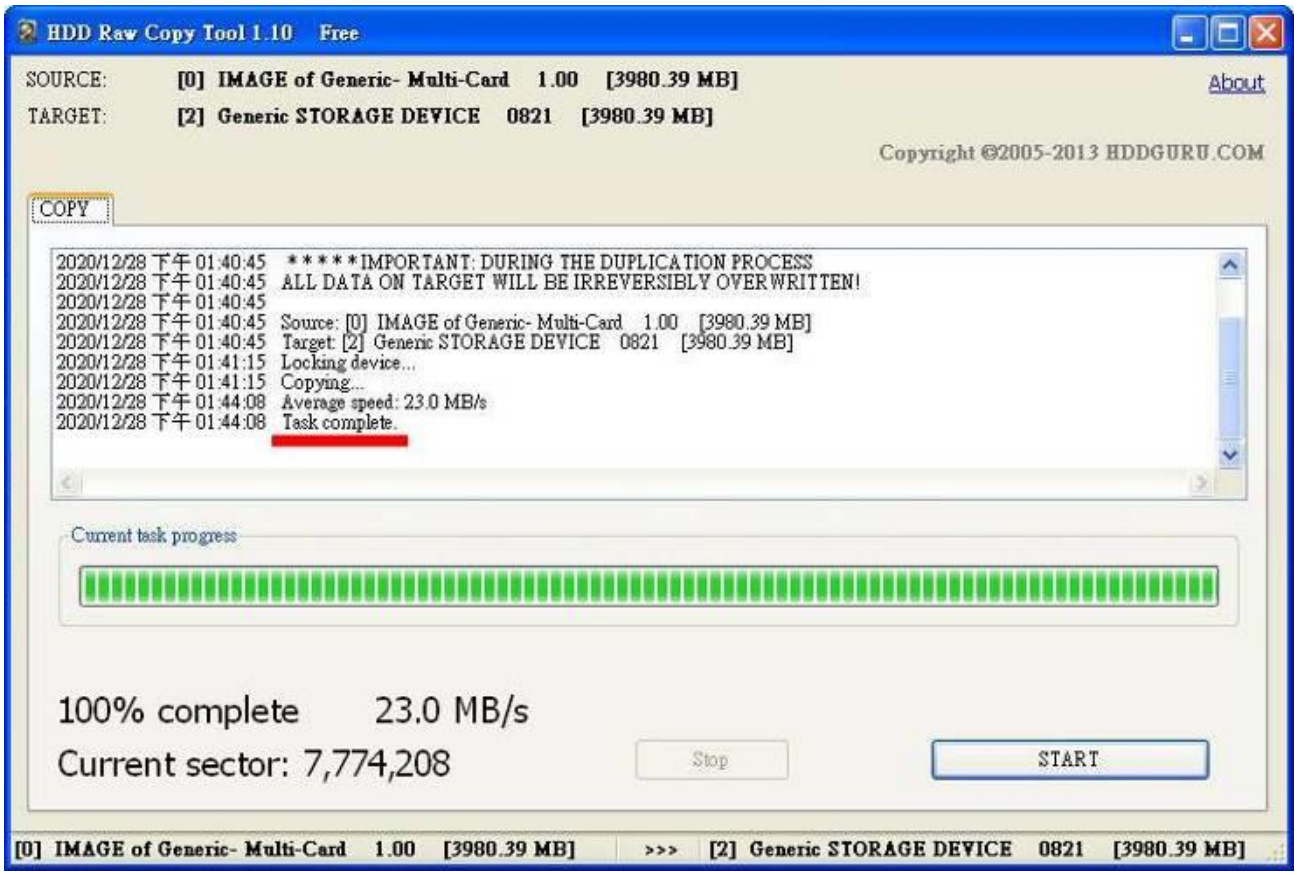
(5) Confirm the burning data settings.



- In the red box 1, first part is the burning file size; second part is the burning destination and file size.
- If the data are correct, click the “START” button.
- Click the “Yes” button to burn the downloaded file into the microSD card.

(6) Burning task completed.

When the "Task complete" message appears, it means that the downloaded file burning task is completed.

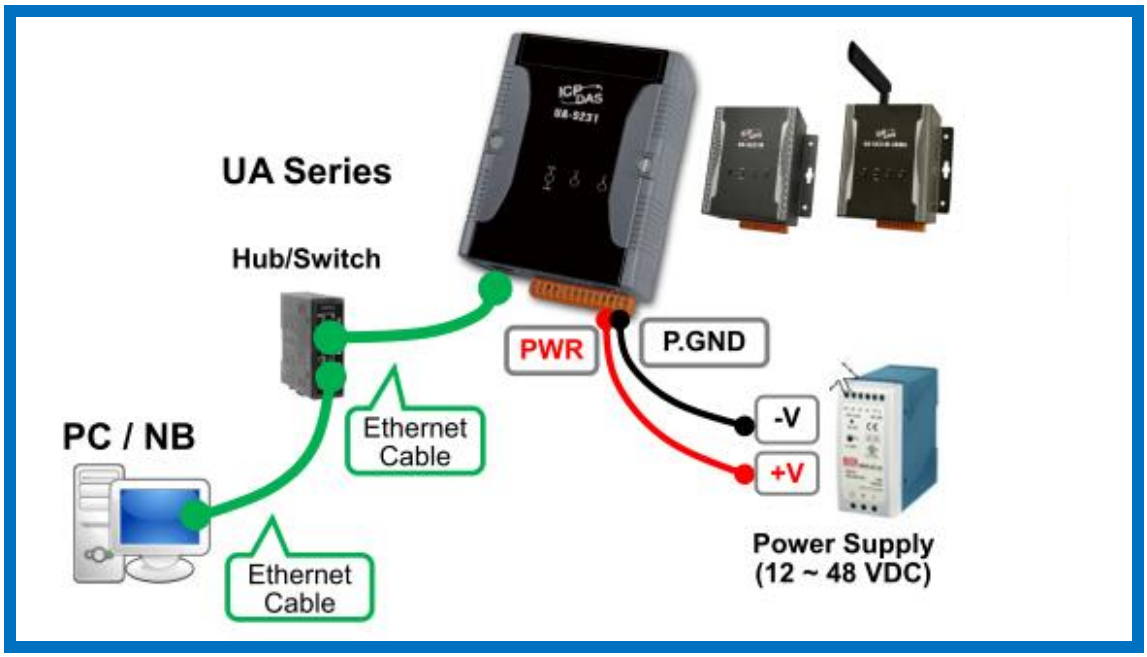


3.3. How to Burn OS into UA-5200 Product

(1) Put the burned MicroSD card into the card slot on the top side of the UA-5200 series (as the picture below).

(2) Turn the Rotary Switch on the bottom side of the UA to "**0**" (as shown below).

(3) The UA Series equips with a standard RJ-45 network interface LAN1. Please use the LAN1 to connect to the network hub or switch (as the figure below).
(Users can also directly connect UA and PC/NB.)



(4) Power on the UA-5200 series again.

➔ Wait about 1 minute. **(WARNING! DO NOT power off during the burning process. Otherwise, the upgrade will fail.)**

➔ L2 turns up green light and emits one long beep.

➔ Wait about 5 minutes.

➔ Both L1 and L2 turn up green lights and emit two long beeps. It indicates the burning process is successful.

➔ Power off the UA-5200 series. **Take out the OS MicroSD card (burned).**
(WARNING! If forgot to remove the burning card will result in repeated burning.)

➔ Insert the MicroSD card into the card reader on PC/NB.

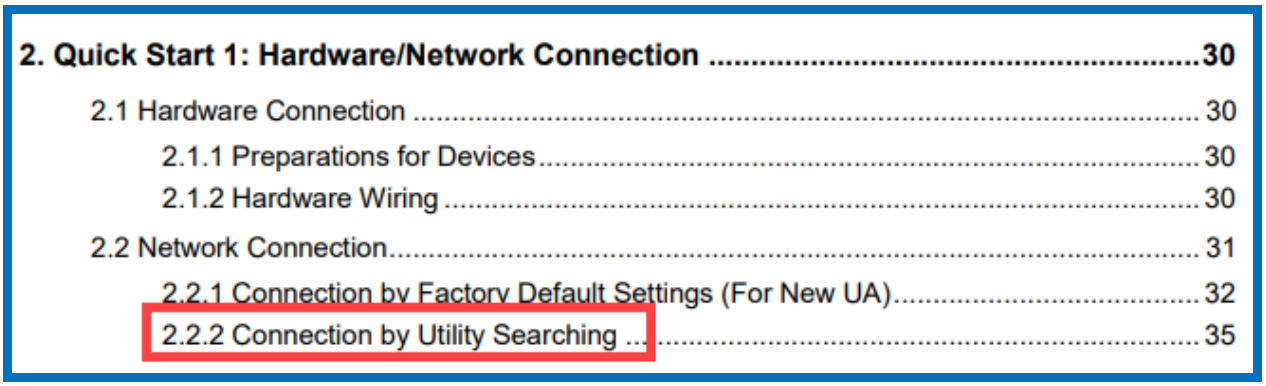
➔ It is recommended to use DiskGenius software to format the MicroSD card into FAT32 format

➔ Insert the MicroSD card back into the UA-5200 series.

➔ Power on again. The OS burning procedure is complete now.

3.4. How to know the UA-5231 IP address after the OS burning?

After burning, **Default IP is 192.168.255.1**
Default Username: root
Default Password: root
Also, you can scan and confirm the IP address through the **EZ-UAQ Utility**.
For the operation of **EZ-UAQ Utility**, please refer to **chapter 2.2.2** of the UA User Manual. Click the UA Website [Download Center] or the following link:
https://www.icpdas.com/en/download/show.php?num=1133&nation=US&kind1=&model=&kw=ua-



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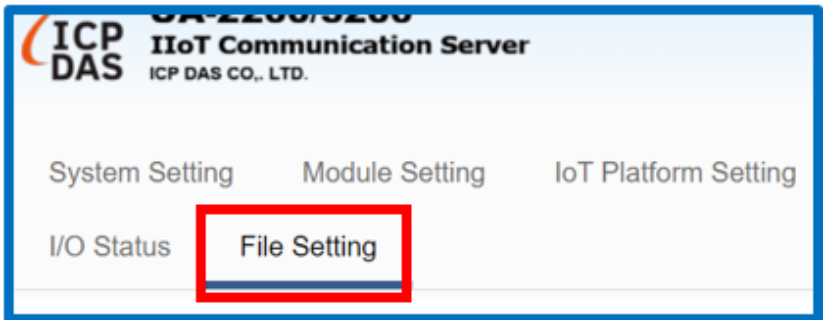
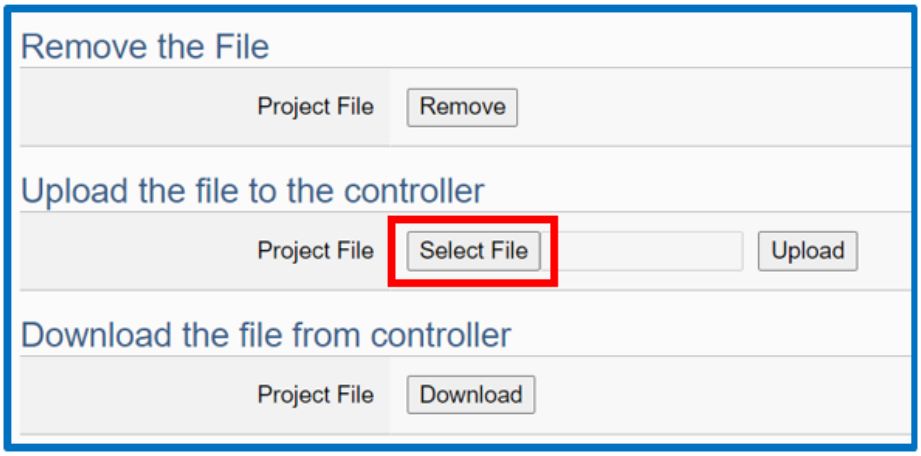
3.5. How to Restore the Backup Project File?

After logging in to the UA-5200 UI webpage, click the 【File Setting】 function.



Click 【Select File】, select the previously backed up project file, and click【Upload】.