



## AvalonMiner Upgrade Tool (Beta) Instruction

File NO.: QS-QA-OS-038

REV: A/0

Making: Quality department

Date: 2022/09/06



Change list

NO.	REV	Description	Owner	Date
1	A/0	Initial release	DUZHIZHOU	2022-09-06



## 1. Overview

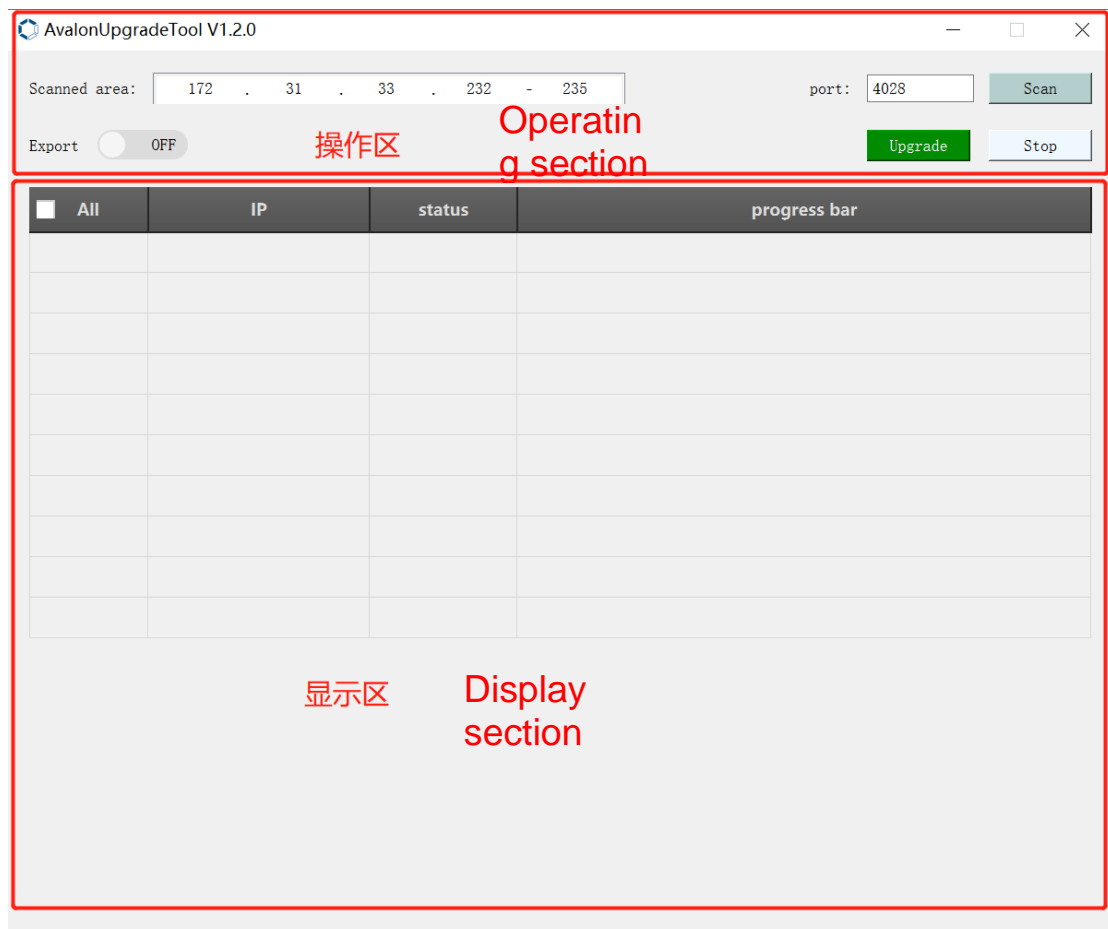
This upgrading tool is applicable to all models of A3202, A3201, and A3200. The tool will identify the model automatically during the upgrading process. This upgrading tool supports both machine IP and scanning modes, and can support the upgrading of 10 machines at the same time while providing visual updates on the machine upgrading process.

## 2. Operating Environment

Operating system: Windows 10 (64-bit)  
Installation process: Not required

## 3. Description of interface

The interface comprises of an operating section and a display section





### 3.1 Operating section

Scanning of IP address range and port number can be set under the operating area

Scanned area: 10 . 100 . 230 . 1 - 250 port: 4028

There are also three control buttons in the operating area:

**Scan** Scan all machines in the input IP address range  
**Upgrade** Upgrade the firmware of the selected miner  
**Stop** Stop the firmware upgrade of selected miner

And a sliding switch

**Export** OFF To select whether records of upgrades are exported

### 3.2 Display section

Results from the machine scan will be shown on the display section

<input type="checkbox"/> All	IP	status	progress bar
<input type="checkbox"/> 1	10.100.106.2	unchecked	0%
<input type="checkbox"/> 2	10.100.106.9	unchecked	0%
<input type="checkbox"/> 3	10.100.106.5	unchecked	0%
<input type="checkbox"/> 4	10.100.106.8	unchecked	0%

In which:

**All** Shows all serial numbers of machines scanned  
**IP** Shows all IP addresses of machines scanned  
**status** Shows all machine statuses  
**progress bar** Shows the progress of all machines being upgraded

## 4. Description of Tool Functions

This tool supports three main functions: Scanning of miner, upgrading of miner firmware and exporting of the machine log

### 4.1 Scan miner function:

Enter the IP address range to be scanned in the 'Scanned area' field. (Note: Only a maximum of 10 machines can be scanned by the tool regardless of the number of machines within the IP range. These are first 10 machines that respond to the scan) and port number (Note: The default port number of Avalon miner is 4028)



Scanned area:  port:

Upon configuration, click the Scan button to complete the scan

Scanned area:  port:  Scan

Export ☐ OFF Upgrade Stop

<input type="checkbox"/> All	IP	status	progress bar
<input type="checkbox"/> 1	172.31.33.233	unchecked	0%
<input type="checkbox"/> 2	172.31.33.232	unchecked	0%
<input type="checkbox"/> 3	172.31.33.234	unchecked	0%
<input type="checkbox"/> 4	172.31.33.235	unchecked	0%

## 4.2 Miner Upgrade Function

There are three steps involved to upgrade the miner: First get the IP address list of the machine, then select the miner you want to upgrade. Proceed to click the upgrade button and the tool will automatically select the appropriate firmware for the upgrade

### Step One: Obtaining the machine IP address

You may obtain the list of miners by scanning, or directly entering the IP addresses of machines you wish to upgrade in the IP address field. The process and steps for the scanning function have been covered in the previous section. This section only covers results when IP addresses are input directly

<input type="checkbox"/> All	IP	status	progress bar
	<input type="text" value="10.100.106.11"/>		

Upon entering the IP address, click on the blank space to display the rest of the information

<input type="checkbox"/> All	IP	status	progress bar
<input type="checkbox"/> 1	10.100.106.11	unchecked	0%

### Step Two: Mining Machine Selection

Select the machine you wish to upgrade

<input type="checkbox"/> All	IP	status	progress bar
<input checked="" type="checkbox"/> 1	10.100.106.2	waiting	0%
<input type="checkbox"/> 2	10.100.106.9	unchecked	0%
<input type="checkbox"/> 3	10.100.106.5	unchecked	0%
<input type="checkbox"/> 4	10.100.106.8	unchecked	0%

Or click on the ☐ All checkbox to select all machines, the statuses of selected machines will then be changed to 'waiting'.

<input checked="" type="checkbox"/> All	IP	status	progress bar
<input checked="" type="checkbox"/> 1	10.100.106.2	waiting	0%
<input checked="" type="checkbox"/> 2	10.100.106.9	waiting	0%
<input checked="" type="checkbox"/> 3	10.100.106.5	waiting	0%
<input checked="" type="checkbox"/> 4	10.100.106.8	waiting	0%

Step 3: Click the upgrade button

After clicking **Upgrade**, the tool will display the progress of the upgrade for respective machines and the **status** information will show 'upgrading'.

<input checked="" type="checkbox"/> All	IP	status	progress bar
<input checked="" type="checkbox"/> 1	10.100.106.8	upgrading...	14%

Upon successful upgrading, the progress bar will show 100% and **status** information will show 'finished'.

<input type="checkbox"/> All	IP	status	progress bar
<input checked="" type="checkbox"/> 1	172.31.33.231	finish	100%
<input type="checkbox"/> 2	172.31.33.232	unchecked	0%
<input type="checkbox"/> 3	172.31.33.235	unchecked	0%
<input type="checkbox"/> 4	172.31.33.233	unchecked	0%
<input type="checkbox"/> 5	172.31.33.234	unchecked	0%

If the upgrade fails, the progress bar will stop and **status** information will show 'failed'.

<input type="checkbox"/> All	IP	status	progress bar
<input checked="" type="checkbox"/> 1	172.31.33.231	fail	<div><div></div></div> 5%
<input type="checkbox"/> 2	172.31.33.232	unchecked	<div><div></div></div> 0%
<input type="checkbox"/> 3	172.31.33.235	unchecked	<div><div></div></div> 0%
<input type="checkbox"/> 4	172.31.33.233	unchecked	<div><div></div></div> 0%
<input type="checkbox"/> 5	172.31.33.234	unchecked	<div><div></div></div> 0%

If you wish to cancel the firmware upgrade at any point, click the **Stop** button

to stop the process immediately. The **status** information will show 'cancel'.

<input checked="" type="checkbox"/> All	IP	status	progress bar
<input checked="" type="checkbox"/> 1	10.100.106.8	cancel	<div><div></div></div> 28%

Example of the complete upgrading process  
Scanning

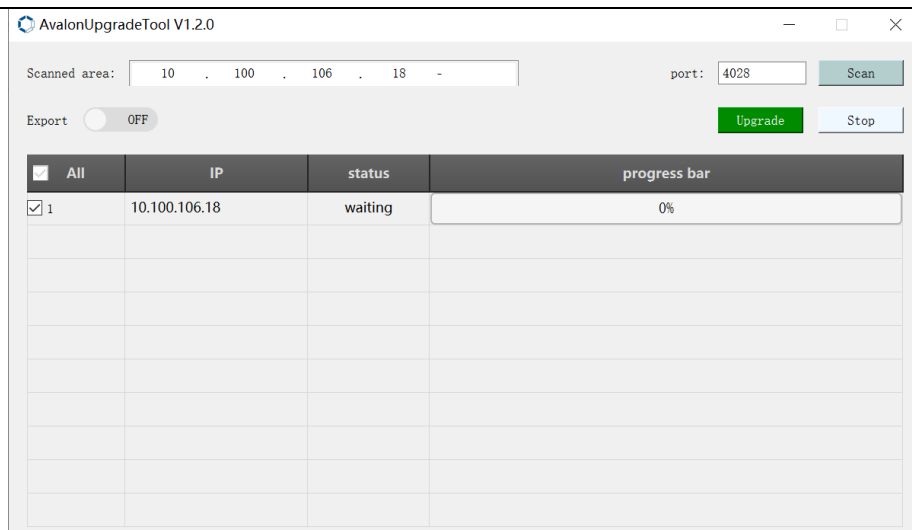
AvalonUpgradeTool V1.2.0

Scanned area: 10 . 100 . 106 . 18 -
port: 4028
Scan

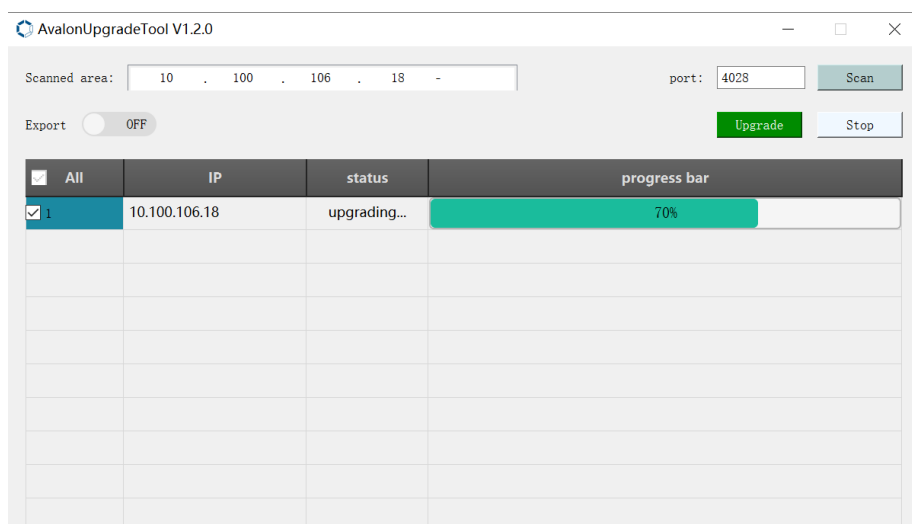
Export OFF
Upgrade
Stop

<input type="checkbox"/> All	IP	status	progress bar
<input type="checkbox"/> 1	10.100.106.18	unchecked	<div><div></div></div> 0%

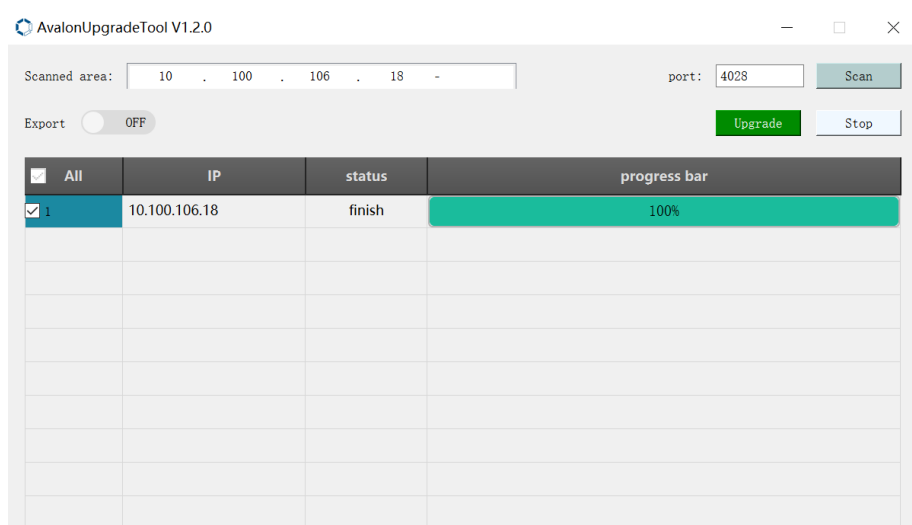
Selection



## Upgrading



## Upgrade complete




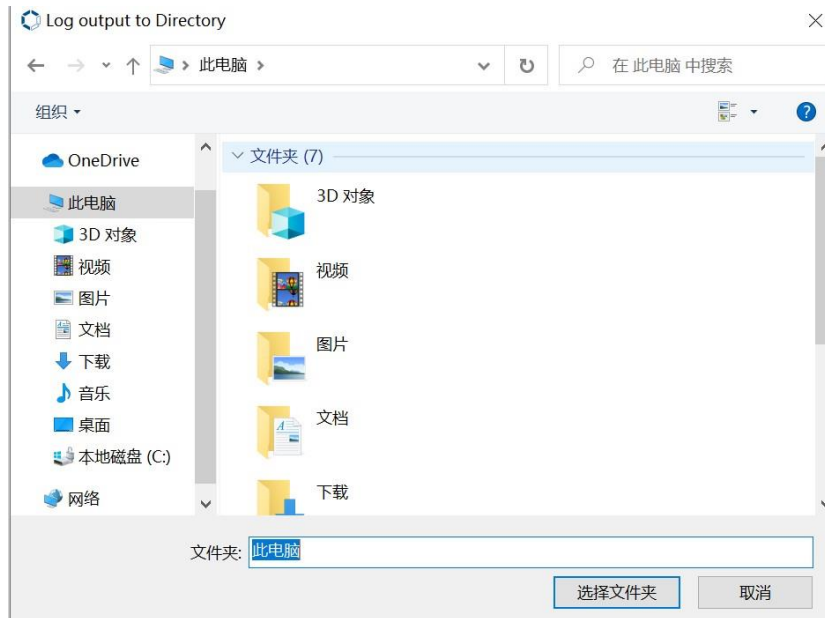
## 4.3 Upgrade tool export function





This upgrade tool supports exporting of records of all upgrades done. The export log function is disabled by default, but users have the option to export log information

Click the  button in the operating section and select a destination to save the log file



Only one destination can be selected when the tool is running. If it is not selected, the log will be saved to the current directory

