

Bitdisk All Firmware User Guide

First time configuration - quick start

1: Plug in the DC power supply and power on the motherboard.

2: The motherboard will create a hotspot AP. Pay attention to the small screen. There will be a prompt on the screen, "Please connect bitdisk_xxx"

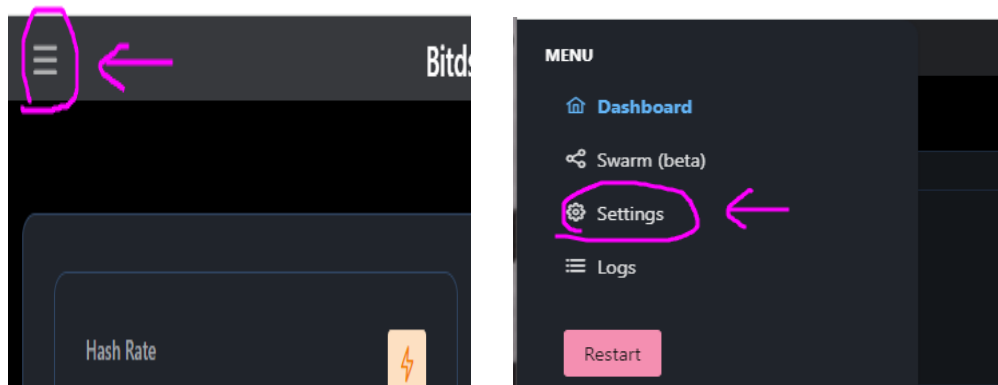
3: Turn on the mobile phone's wifi and connect to the hotspot "bitdisk_xxx"

4: After connecting to the hotspot, the management window will usually pop up automatically. (If it does not pop up, click the hotspot name on the mobile wifi interface).

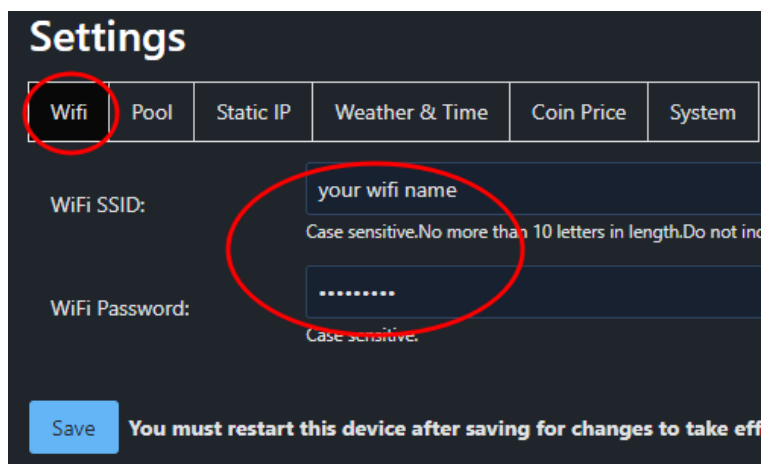
Note1: Some mobile phones cannot automatically pop up the management page. You can use the mobile browser to open 192.168.4.1

Note2: When asked whether to trust this network, please click "Trust this network". When asked whether to automatically switch to the Internet, please click "Don't switch"

5: Click the three bars on the left side of the management window and select setting to enter the setting.



6: Configure and modify the wifi name and wifi password



7: Configure wallet

Settings

Wifi	Pool	Static IP	Weather & Time	Coin Price	System
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Pool URL: public-pool.io
Do not include 'stratum+tcp://' and ports

Pool Port: 21496

Pool User: 19ac4otHjzmbPpyKodYHvVCwzTnT4gQGjA.bitdsk

Pool Password: x

Save You must restart this device after saving for changes to take effect.

Pool user fill in your wallet address.

8: Click save to save, and then click reboot on the left to restart.

9: After restarting, you can see IP: xxx.xxx.xxx.xxx on the screen. This IP is the management IP. You can view and manage it by opening it with a browser in the LAN.

Congratulations, the configuration is complete.

How to configure a static IP

By default, static IP does not need to be configured to work properly. This feature serves two

main purposes.

1: Fixed IP for easy management

2: Bypass routing function, through which traffic can be connected to the mining pool through a proxy

The picture below shows how to configure a static IP. The main points to note are:

1: Please make sure all data is correct and cannot be left blank. There is no error checking in the configuration here, which also means that configuration errors may result in the inability to connect to the Internet or the inability to enter the background.

2: If the configuration is wrong and the management interface cannot be entered. At this time, you can turn off the router WiFi and leave the motherboard in a network-free state. Then power on the motherboard, use your mobile phone to connect to the hotspot AP again, and modify the configuration here.

Settings

Wifi	Pool	Static IP	Weather & Time	Coin Price	System
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☒ Enable Static IP

Static IP: 192.168.0.108

Netmask: 255.255.255.0
255.255.255.0

Gateway: 192.168.0.1

DNS MAIN: 192.168.0.1

DNS BACKUP: 8.8.8.8

DNS FALLBACK: 8.8.4.4

Save You must restart this device after saving for changes to take effect.

The picture below shows how to configure the bypass route. Pay attention to the following points:

- 1: static ip configures the ip of the current motherboard. 192.168.0.196 is the gateway of the bypass route.
- 2: The gateway does not point to the main router, but to the side router. The traffic will be forwarded from the side router to the main router. At this time, the side router can install Clash to proxy the traffic.
- 3: How to get a bypass route can refer to Google search results.

The screenshot shows a 'Settings' interface with a dark theme. At the top, there is a horizontal menu with tabs: 'Wifi', 'Pool', 'Static IP', 'Weather & Time', 'Coin Price', and 'System'. The 'Static IP' tab is selected and highlighted with a red circle. Below the menu, there is a checkbox labeled 'Enable Static IP' which is checked and also highlighted with a red circle. A large red circle encompasses the configuration fields below. These fields are: 'Static IP:' with the value '192.168.0.108'; 'Netmask:' with the value '255.255.255.0'; 'Gateway:' with the value '192.168.0.196'; 'DNS MAIN:' with the value '192.168.0.196'; 'DNS BACKUP:' with the value '8.8.8.8'; and 'DNS FALL BACK:' with the value '8.8.4.4'. At the bottom left, there is a blue 'Save' button. To the right of the button, a message states: 'You must restart this device after saving for changes to take effect.'

Static IP:	192.168.0.108
Netmask:	255.255.255.0
Gateway:	192.168.0.196
DNS MAIN:	192.168.0.196
DNS BACKUP:	8.8.8.8
DNS FALL BACK:	8.8.4.4

Save You must restart this device after saving for changes to take effect.

How to configure weather (color screen function)

A total of two interfaces are provided: "xinzhi" and "Accuweather". Choose one of the two interfaces. It is recommended that Chinese users choose the first one.

Settings

Wifi	Pool	Static IP	Weather & Time	Coin Price	System
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Weather API

Disable

XinZhi is used in China. Accuweather is used in Other Countries.
XinZhi update frequency: 15 minute Accuweather update frequency: 60 minute

API Secret

x
Get Secret. XinZhi: "seniverse.com" Accuweather: "developer.accuweather.com"

Temperature Template

°C

City

london
eg:"shanghai" "london".IF Keep empty, judge based on IP address(Accuweather int

Latitude and longitude

24.16272349703579,120.67592638941353
Accuweather interface cannot be empty here. Please open google map to get it.(ht

Time Zone

CST-8
China Time is set to:CST-8 (format: <https://www.gnu.org/software/libc/manual/html>

SNTP Server

ntp1.aliyun.com
time server. (ntp1.aliyun.com)(cn.pool.ntp.org)

Save

You must restart this device after saving for changes to take effect.

How to configure the XinZhi interface

To get the Seniverse Weather API, open the URL: <https://www.seniverse.com/>

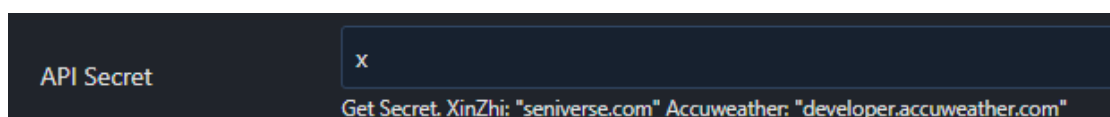
- 1: Register an account and enter the console
- 2: Click Add Product on the left and select Free Version-Free Application
- 3: Select the free version you applied for on the left



4: Click on the right side to display the private key and copy it out



5: Copy your private key to API Secret



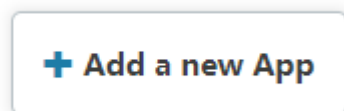
6:City fill in the city, it must be in Pinyin or English, click save to save, and restart the host.

(Note: The network obtains the weather once every 15 minutes. There is a probability that the acquisition will fail. Just wait 15 minutes for synchronization)

How to configure the Accuweather interface

1: Open developer.accuweather.com and register an account

2: Add an application



Add App

App Name *

AnyText

Internal name: -anytext [Edit](#)

Products*

Core Weather

- ☒ Core Weather Limited Trial
☐ None

MinuteCast

- ☐ MinuteCast Limited Trial
☒ None

Where will the API be used? *

Mobile App

What will you be creating with this API? *

- ☐ Partner App
☐ Internal App
☐ Productivity App
☒ Weather App

What programming language is your APP written in? *

Objective C

Is this for Business to Business or Business to Consumer use? *

- ☐ Business to Business
☒ Business to Consumer

Is this Worldwide or Country specific use? *

- ☒ Worldwide
☐ Country

What is the public launch date?

2024-11-21

CREATE APP

3: Copy your api key to API Secret

These are your apps! Explore!

mycore

Keys

Products

Details

Analytics

Edit "mycore"

Delete "mycore"

mycore' s Keys

API Key	YWwRG
Key Issued	Tue, 11/19/2024 - 16:40

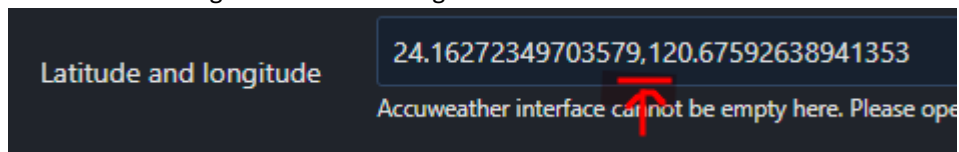
Weather API	Accuweather
API Secret	<div>your accuweather API Key</div> <div>Used to update weather forecasts. XinZhi: "seniverse.com" Accuweather: "developer.accuweather.com"</div>
Temperature Template	°C
City	<div>london</div> <div>For: XinZhi API, eg: "shanghai" "London" .IF Keep empty, judge based on IP address.</div>
Latitude and longitude	<div>24.16272349703579,120.67592638941353</div> <div>For: Accuweather API</div>

4: Open google map to get the latitude and longitude <https://www.google.com/maps/>



5: Right-click the place name to see the latitude and longitude, copy this string

6: Fill in the settings: Latitude and longitude




The screenshot shows a settings window with a dark background. On the left, the text 'Latitude and longitude' is displayed. To its right is a text input field containing the string '24.16272349703579,120.67592638941353'. A red arrow points to a space character between the two numbers in the string. Below the input field, a message reads: 'Accuweather interface cannot be empty here. Please open'.

Note: There are English commas in the middle of the string, and there will be a space after the comma. Please delete this space manually, otherwise the request for weather data will fail.

How to configure the clock (color screen function)

Open the management interface and switch to Weather & Time



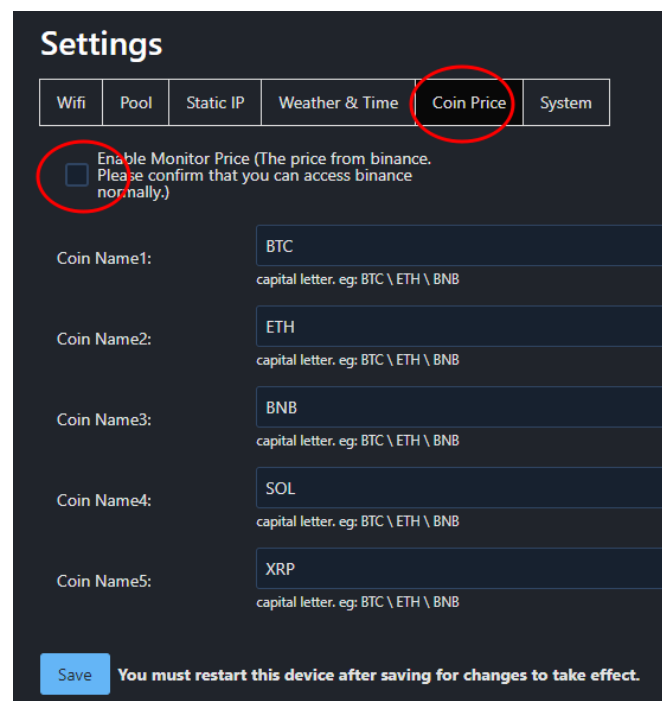
The screenshot shows a settings window titled 'Weather & Time'. It has two main sections. The first section is 'Time Zone', with a dropdown menu set to 'CST-8'. Below this, a message says 'China Time is set to:CST-8 (format:https://www.'. The second section is 'SNTP Server', with a text input field containing 'ntp1.aliyun.com'. Below this, a message says 'time server. (ntp1.aliyun.com)(cn.pool.ntp.org)'. At the bottom left is a blue 'Save' button. To its right, a message reads: 'You must restart this device after saving for ch'.

Time Zone represents the time zone, and the default CST-8 represents Beijing time.
The SNTP server is a network time synchronization server and can be replaced with other servers.

Time Zone format can refer to:

https://www.gnu.org/software/libc/manual/html_node/TZ-Variable.html

How to configure currency price display (color screen function)

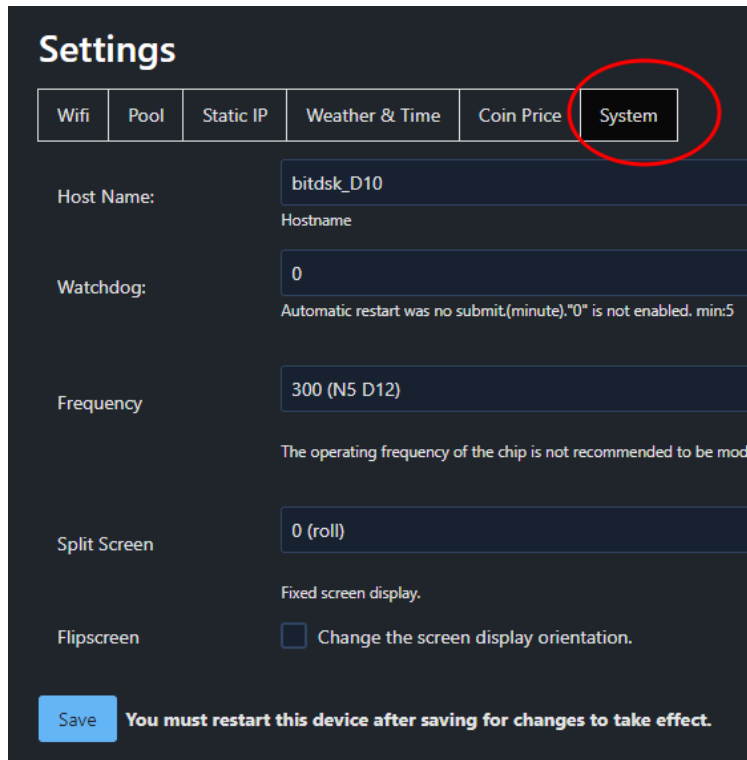


The screenshot shows a 'Settings' interface with a dark background. At the top, there is a horizontal menu with tabs: 'Wifi', 'Pool', 'Static IP', 'Weather & Time', 'Coin Price', and 'System'. The 'Coin Price' tab is highlighted with a red circle. Below the tabs, there is a checkbox labeled 'Enable Monitor Price (The price from binance. Please confirm that you can access binance normally.)', which is also circled in red. Below this, there are five input fields for 'Coin Name1' through 'Coin Name5'. Each field contains a coin abbreviation (BTC, ETH, BNB, SOL, XRP) and has a hint text below it: 'capital letter. eg: BTC \ ETH \ BNB'. At the bottom left, there is a blue 'Save' button. To the right of the button, a message states: 'You must restart this device after saving for changes to take effect.'

Things to note:

- 1: Coin price will obtain real-time prices from Binance. If you cannot access Binance, please do not enable this function.
- 2: Coin abbreviation must be in capital letters
- 3: The coins must exist on Binance, otherwise the acquisition will fail.

System configuration



The screenshot shows a 'Settings' interface with a dark theme. At the top, there is a horizontal menu with tabs: 'Wifi', 'Pool', 'Static IP', 'Weather & Time', 'Coin Price', and 'System'. The 'System' tab is selected and highlighted with a red circle. Below the tabs, the settings are organized into sections. The 'Host Name' section has a text input field containing 'bitdsk_D10' and a label 'Hostname' below it. The 'Watchdog' section has a text input field containing '0' and a note below it: 'Automatic restart was no submit(minute). "0" is not enabled. min:5'. The 'Frequency' section has a text input field containing '300 (N5 D12)' and a note below it: 'The operating frequency of the chip is not recommended to be mod'. The 'Split Screen' section has a text input field containing '0 (roll)' and a note below it: 'Fixed screen display.'. The 'Flipscreen' section has a checkbox that is currently unchecked, with the text 'Change the screen display orientation.' next to it. At the bottom left, there is a blue 'Save' button. To the right of the button, a message states: 'You must restart this device after saving for changes to take effect.'

Wifi	Pool	Static IP	Weather & Time	Coin Price	System
Host Name:		bitdsk_D10 Hostname			
Watchdog:		0 Automatic restart was no submit(minute). "0" is not enabled. min:5			
Frequency		300 (N5 D12) The operating frequency of the chip is not recommended to be mod			
Split Screen		0 (roll) Fixed screen display.			
Flipscreen		<input type="checkbox"/> Change the screen display orientation.			
Save		You must restart this device after saving for changes to take effect.			

Host Name: Set the local hostname

Watchdog: When there is no submission, the motherboard will be automatically restarted, unit: minutes. Since the initial difficulty of different mining pools is different, if it is set too low, it will cause frequent restarts. It is recommended that it take more than 15 minutes. And it needs to be set appropriately according to the difficulty of the mining pool. If you have no experience in this area, it is recommended to keep it at 0.

Frequency: chip operating frequency. If you have no experience in this area, it is recommended not to modify it.

Split Screen (color screen function): Fixed display of a certain split screen

Flipscreen: Flip the screen, allowing the screen to be displayed backwards.

SOS rescue page

Page address: <http://yourManagementIP/sos>

When an unexpected power outage prevents the web page from managing the interface, you can rewrite and enter the latest firmware from here.

The update operation will clear the www partition and then write the data

FAQ

1: How to use the web page to view and manage after the first configuration?

By default, the screen will flip once every 15 seconds. You can see IP: xxx.xxx.xxx.xxx on the screen. This IP is the management IP. You can view and manage it by opening it with a browser in the LAN.

2: What should I do if the pop-up window is white screen, black screen or no pop-up window after connecting to the hotspot?

Follow these steps:

- ①: Place the motherboard on the ground, do not place it on electrical appliances, and do not place it next to electrical appliances.
- ②: Turn off the WiFi of the mobile phone. Note that it is the mobile phone, not the router.
- ③: Power off the mainboard -> power on -> wait, then the AP hotspot name will appear on the screen
- ④: Hold your phone slightly closer to the board, turn on the phone's wifi, and connect to the AP hotspot
- ⑤: You should be able to start setting up now

The above steps can be repeated multiple times for testing

3: The wifi name and password are correct, but what should I do if I can't connect to wifi?

The motherboard WiFi supports wpa2 encryption method. Please log in to the router first to determine the encryption method. The wifi name cannot have special characters, such as "-". After actual testing, there is a probability that the connection cannot be made.

The motherboard WiFi only supports 2.4G frequency. Turning off dual-band integration will help stability.