ICERIVER XP0

USER MANUAL

ICERIVER®

Document Information

This page identifies the product and the applicant for document control, customer reference, and certification submission use.

Document Title	XP0 User Manual
Manufacturer	BGIN TECHNOLOGIES PTE. LTD.
Product Name	Micro Server
Model No.	XP0

Important Safety Information

Warning: We strongly recommend using the official optional power adapter. Equipment damage, instability, or safety incidents caused by the use of uncertified, incompatible, or third-party power adapters will immediately void the warranty and are not the responsibility of the manufacturer.

Product Notice: ICERIVER provides mining hardware only. ICERIVER does not endorse, sponsor, promote, or validate any third-party protocol, network, token, or digital asset project. Mining performance and returns are not guaranteed and may be affected by network conditions, token economics, electricity costs, equipment performance, regulatory developments, and other factors.

Table of Contents

1.General Guide

We recommend reading this XP0 User Manual thoroughly before operating the product, and retaining it for future reference.
For more information, please refer to https://www.iceriver.io/help-center/.

1.1 Installation Guide

1. Check whether the packaging or device shows any signs of damage or deformation. Also check the fan and cables, and listen for any abnormal noise. Do not disassemble the server. Unauthorized disassembly will void the warranty.
2. Before installing the server, check for any physical interference causing damage to the machine and be cautious of the risk of electric shock.
3. Please refer to the installation manual before connecting the power supply https://www.iceriver.io/help-center/.
4. The socket should be installed near the server and easily accessible.
5. Ensure a stable power supply.
6. Before powering on, check that all cable connections are secure and correctly aligned, and observe electrical safety precautions.
7. The server should not be directly connected to a primary power source, and power should be obtained through double insulation or reinforced insulation safety isolation transformers or equivalent devices (only applicable to equipment without power supply).
8. The server uses web login, with the default account being “admin” and password being “12345678”. Please change the server password after the first startup. After completing the password change, you need to log in again with the new password.

1.2 Operating Environment

1. Due to the high surface temperature of the server during operation, avoid covering the server surface or placing flammable or explosive materials around it, and ensure that the ventilation holes are not blocked.

2. Do not place the server near water or expose it to humid environments. Please keep the environment clean to prevent dust, hair, and other airborne particles from entering the server and causing damage. Do not insert any objects into the slots of the server. This may damage circuit components, leading to fire or electric shock. Do not splash liquids onto the server.

3. The server should be operated at an altitude below 2000 meters. High altitude can lead to thin air and reduce heat dissipation efficiency, increasing the risk of power breakdown. At the same

time, it will accelerate the aging of the fan, affect stability, and shorten the lifespan of the equipment.

4. Ensure sufficient space around the server for ventilation. The recommended operating temperature for the server is 0-40 °C, and the humidity is below 90% RH. Be careful to avoid condensation at lower temperatures.

5. The server should be placed in a secure location. Falling or dropping may cause damage.

6. This server is not suitable for places where children may be present.

1.3 Maintenance

1. If the server emits strange smells, sounds, or smoke, please immediately unplug the power cord and contact the service center.

2. Unauthorized replacement of the power supply is prohibited. Any server malfunction caused by unauthorized power supply replacement will not be covered by the warranty.

3. Do not allow hands or fingers near moving fan blades.

4. Unplug the device during thunderstorms or if it will not be used for an extended period. This will protect the server from damage caused by power surges.

5. Do not overload the power outlet or power cord, as this may cause a fire or electric shock.

6. Do not open the server to avoid the risk of electric shock. For safety reasons, only professional service personnel are authorized to open the server.

7. Never hit or drop the product under any circumstances.

8. When a new firmware update is released on the official website, it can be downloaded and updated via the web interface.

9. If the server experiences abnormal conditions, you can restore it to factory settings using the reset button.

10. If you need to clean the server, disconnect the server from the power source before cleaning. Do not use any liquid or aerosol cleaners. Only use a dry cloth or brush. Ensure no cleaning agents leak into the product. Any issues caused by improper cleaning will not be covered by the warranty.

1.4 Basic Troubleshooting

1. If any of the following conditions occur, the server must be inspected by professional service personnel:

- The power cord or plug is damaged
- Liquid has seeped into the server
- The server has been exposed to a humid environment
- The server has been dropped or damaged
- The server shows obvious signs of damage
- The server does not operate normally or as described in the manual

2. The server will not power on after connecting the power and switching it on:

- Check if the power connector is loose or disconnected, and ensure the power cord is securely plugged in.
- Verify that the input voltage is within the specified operating range.

3. The network port light is off:

- Check if the network cable is properly connected

4. The server is overheating:

- Check if the ambient temperature is too high
- Check if the inlet and outlet of the fan are blocked

1.5 Machine Repair

1. All sales are final. Returns and exchanges are not accepted, except where required by applicable consumer protection laws.

2. A 180-day warranty is provided starting from the shipping date. According to the ICERIVER warranty policy, if the server needs to be returned for repair within the warranty period, contact customer service to submit a repair ticket. ICERIVER will cover the return shipping cost for repaired equipment.

3. The following conditions are not covered by the warranty:

- Product damage caused by improper installation, use, and maintenance cannot be repaired.
- Product damage or malfunction caused by dropping, misuse, negligence, or improper operation.
- Product damage caused by physical interference, including but not limited to moisture, fire, flood, lightning strikes, transportation, and extreme environments.
- Products without original barcode or SN label, or products with altered, damaged, or removed labels.
- The server's firmware has been modified by third-party.
- Removal or replacement of any components by the customer without official prior approval.
- Damage to the product, device, or any part caused by moisture, oxidation, corrosion, or short circuits. Damage to the server, board, or components caused by water immersion or humid environments.
- Missing pins or PCB damage caused by improper packaging or handling.
- Use of harmful substances like oil or cleaning agents that pose a health risk during repair.

4. If your server cannot operate according to the official standard operating terms and conditions, please submit a ticket at the following website： https://support.iceriver.io/requests/new/

5. Please provide the original order ID, a photo of the server's SN tag showing the hashrate, detailed information about the server status, and relevant screenshots. If, after troubleshooting, a defect is confirmed by your ICERIVER representative, please return the component to ICERIVER in accordance with the instructions below.

a) Log in to your ICERIVER account.

b) Go to www.iceriver.io. In the top menu, click "Support" > "Repair Order" > "Create Order"

c) Complete all required fields.

Please provide the correct server SN, item list, and tracking number for the warranty parts. Otherwise, the package may be rejected.

6. The product owner is responsible for the cost of returning the product, parts, or components to our service facility. If the return is within the warranty period, ICERIVER will cover the cost of shipping the repaired or replacement product back to the customer.

7. ICERIVER is not responsible for any losses incurred during transportation by carriers chosen by the customer. It is recommended to use reputable international logistics providers to minimize such risks.

If further support is needed, please contact ICERIVER customer support at: https://support.iceriver.io/requests/new/

1.6 Disclaimer

The information contained in this manual is subject to change without notice. The manufacturer makes no representations or warranties, either express or implied, with respect to the contents of this document, including but not limited to any implied warranties of merchantability or fitness for a particular purpose. The manufacturer reserves the right to revise this publication and to make changes to its content at any time without obligation to notify any person or organization of such revisions or changes.

This manual is provided for product operation and support purposes only and should not be understood as investment, financial, legal, tax, or other professional advice.

1.7 Korea KC Compliance Statement

This equipment has been evaluated for use in a commercial environment. Use in a residential environment may cause radio interference.

이 기기는 업무용 환경에서 사용할 목적으로 적합성평가를 받은 기기로서 가정용 환경에서 사용하는 경우 전파간섭의 우려가 있습니다.

1.8 FCC Compliance Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

（1）This device may not cause harmful interference, and

（2）this device must accept any interference received, including interference that may cause undesired operation.

Note:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Caution:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

1.9 EU Compliance Statement

This product, including any applicable accessories, bears the “CE” marking and complies with relevant harmonized European standards under Directives 2014/30/EU (EMC), 2014/35/EU (LVD), and 2011/65/EU (RoHS).

1.10 Directive 2012/19/EU (WEEE Directive)

This symbol indicates that this product must not be disposed of with regular household waste in the EU. To reduce potential harm to the environment and human health, please recycle it responsibly. Return the device through an authorized collection point or retailer for environmentally safe disposal.

1.11 KC Certificate of Conformity for Broadcasting and Telecommunications Equipment

방송통신기자재등의 적합등록증

Registration of Broadcasting and Communication Equipments

상호 또는 성명 Trade Name or Registrant	BGIN TECHNOLOGIES PTE. LTD.
기자재명칭(제품명칭) Equipment Name	Micro Server
기기부호/추가 기기부호 Equipment code /Additional Equipment code	IMC31
기본모델명 Basic Model Number	XP0
파생모델명 Series Model Number	
등록번호 Registration No.	R-R-Bg01-110902603170O1
제조자/제조국가 Manufacturer/Country of Origin	BGIN TECHNOLOGIES PTE. LTD./중국
등록연월일 Date of Registration	2026-03-31
기타 Others	

위 기자재는 「전파법」 제58조의2 제3항에 따라 등록되었음을 증명합니다.

It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.

2026년(Year) 03월(Month) 31일(Day)

국립전파연구원장 국립전파연구원장인

Director General of National Radio Research Agency

※ 적합등록 방송통신기자재는 반드시 "적합성평가표시" 를 부착하여 유통하여야 합니다.
위반시 과태료 처분 및 등록이 취소될 수 있습니다.

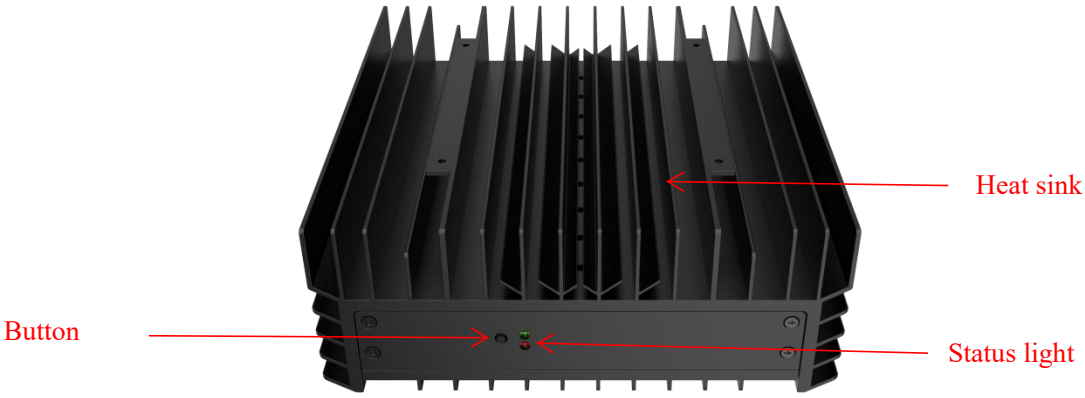
◢ *Certificate of Conformity Registration for Broadcasting and Communications Equipment – KC Certification Number: R-R-Bg01-11090260317001*

Item	Details
Company / Registrant	BGIN TECHNOLOGIES PTE. LTD.
Equipment Name	Micro Server
Device Code	IMC31
Model	XP0
Registration Number	R-R-Bg01-11090260317001
Manufacturer / Country of Origin	BGIN TECHNOLOGIES PTE. LTD. / 중국
Registration Date	2026-03-31

2.Product Overview

2.1 Appearance

XP0:



2.2 Declaration for USB Port and TF Card Slot

We hereby declare that the USB port and TF card slot of **Micro Server (Model: XP0)** are intended for **service and maintenance only** and are **not accessible for normal end-user operation**.

In normal use, the product operates only with:

- DC IN
- LAN

The USB port and TF card slot are only used by authorized personnel for firmware update, debugging, factory configuration, or maintenance. No USB device or TF card is connected during normal end-user operation.

Interface specifications:

Power supply input interface	DC power supply interface: 90W, 19V ⎓ 4.74V MAX
*USB output interface	5V ⎓ 0.5A

***Indicator Description:**

Indicator Status	**Meaning**
Red light off, green light blinking	Machine in normal operation
Red and green lights blinking simultaneously	High temperature alert or network abnormal （see 3.1.7 for more details）
Red light off, green light blinking slowly	Low machine temperature（see 3.1.7 for more details）

3.Function

3.1 Start up

3.1.1 Precautions

- Check whether there is physical interference causing damage to the machine and beware of electric shock.
- Please check if the cable connection is firm before powering on and pay attention to the safety of electricity.
- Keep the hash board and other parts away from water or exposed to moisture.
- Please make sure the ambient temperature is between 0-40°C.
- Ensure the device is placed in a well-ventilated environment.
- Do not cover the machine during operation, as the surface may become hot.
- Do not place flammable and explosive substances around the machine during operation.
- Please make sure the humidity of the environment is below 90%.
- Please keep the environment clean to prevent dust, hair, and other airborne particles from entering the machine and causing damage to the machine.
- Use a stable voltage.
- Please place the machine horizontally.
- Damage to the machine, hash board, or board components caused by an improper operating environment is not covered by the warranty.
- Customers must not disassemble the machine without authorization from the ICERIVER after-sales team.

3.1.2 Check before Startup

Preliminary inspection of the machine before operation:

- Check whether the packaging shows any signs of damage or deformation.
- Check whether the machine shows any signs of damage or deformation. Also check the fan and cables.
- Check for any abnormal noise.

*Note: Please do not disassemble the machine by yourself. The machine will not be covered by the warranty if the user disassembles the machine without permission.

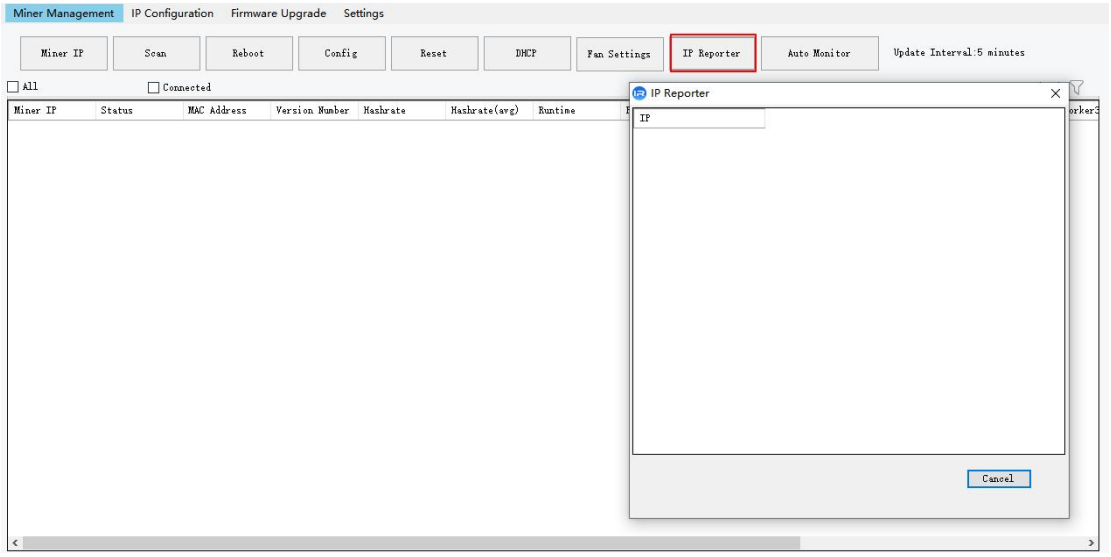
3.1.3 Boot

Please connect the machine to the Ethernet first, and then plug in the power cord. During the startup process, the red and green status lights will be constantly on. After approximately 1 minute, the green status light will start blinking, indicating that the device has successfully started.

3.2 Access Machine

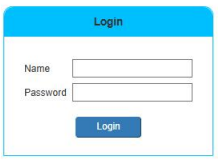
3.2.1 Obtain Machine IP

1. Obtain the machine's IP address by downloading and extracting the batch processing tool provided by the company (please refer to the official website to download: https://www.iceriver.io/help-center/).
2. Click the [IP Reporter] button. When the pop-up window appears, press and hold the machine's button for 1-2s to obtain the machine IP address.



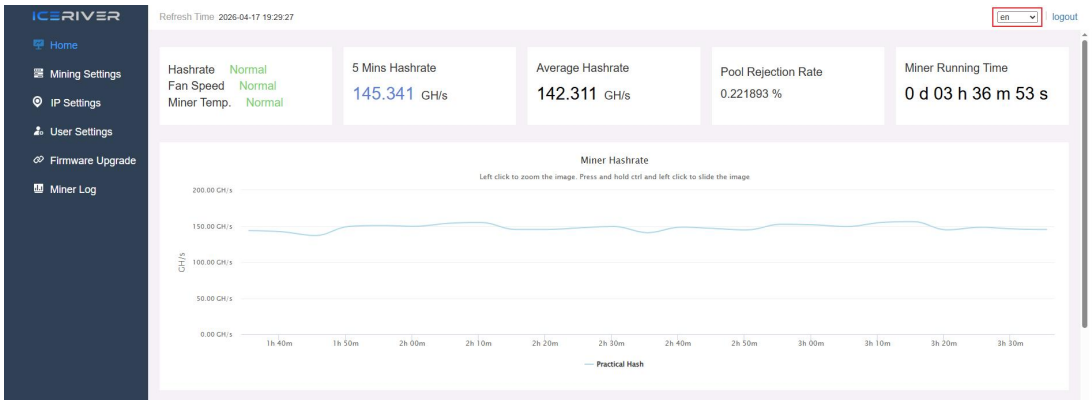
3.2.2 Access Machine

1. Open your web browser (Chrome browser is recommended) and enter the machine's IP address in the address bar. You will see the following interface.
2. Use the default username "admin" and the default login password "12345678" to log in to the machine.



3.3 Language Switch

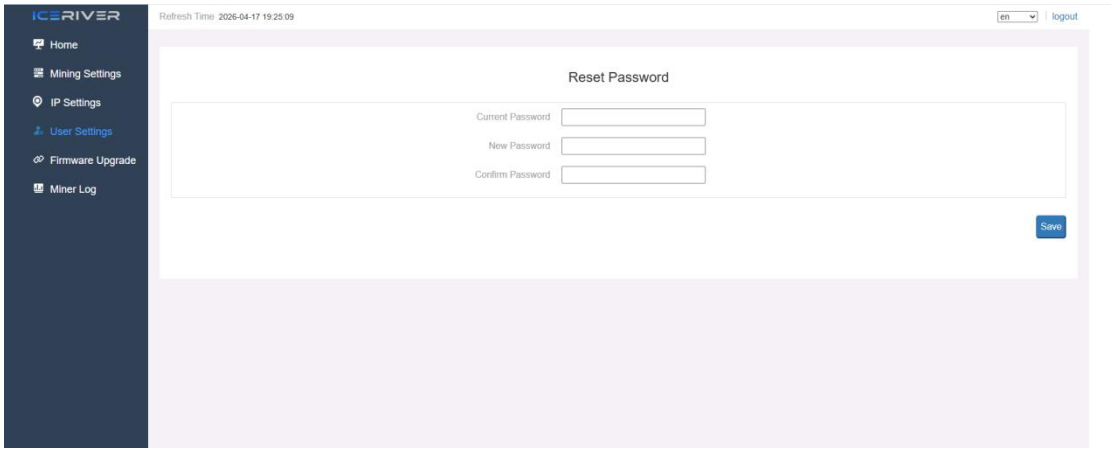
1. Click [Language] in the upper right corner of the page to switch between Chinese and English.



3.4 Change Password

To protect your device and account security, please change the miner password after first starting the machine.

1. Click [User Settings], enter the current password and the new password as shown below, and click the [Save] button.



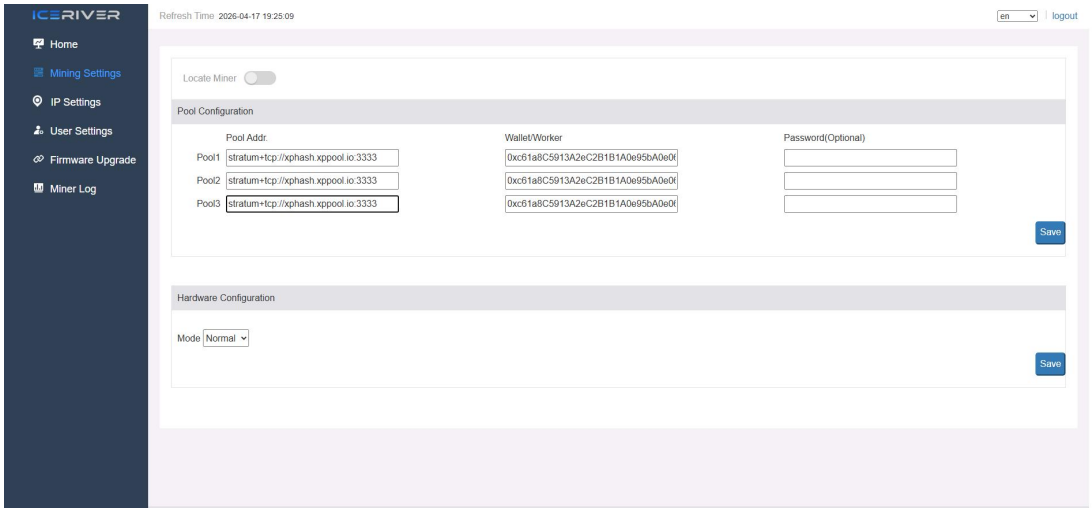
2. After the password change is completed, you need to log in again with the new password.

3.5 Configuring mining pools and wallets

Note: Users are responsible for configuring their own mining pool and wallet information. ICERIVER does not endorse or validate any third-party mining pool, wallet, protocol, network, token, or digital asset project.

3.5.1 Add

1. Go to the [Mining Setting] page and find [Pool Configuration].



You can configure three mining pools with the following reference example:

Pool 1：stratum+tcp://xphash.xppool.io:3333

Wallet/Worker: Enter your wallet address or mining pool username

Example: YourWalletAddress.worker001

* The password is optional and does not affect mining.

2. Click [Save]. A confirmation message will appear upon successful configuration.

3. After successful configuration, click [Restart] and wait for the machine to restart (do not power off during the restart process).

4. If the home page shows the pool is [connected], the pool has been successfully connected.

*The default pool configuration is the configuration of our company when testing. Please

configure your own mining wallet address before starting mining. Do not use the default configuration.

*If pool 1 is not connected, the machine will automatically connect to pool 2. If pool 2 is not connected, the machine will automatically connect to pool 3.

* If the configuration fails you can configure it again and restart it.

The following mining pools are known to be compatible, and will be continuously updated:

Xppool	stratum+tcp://xphash.xppool.io:3333

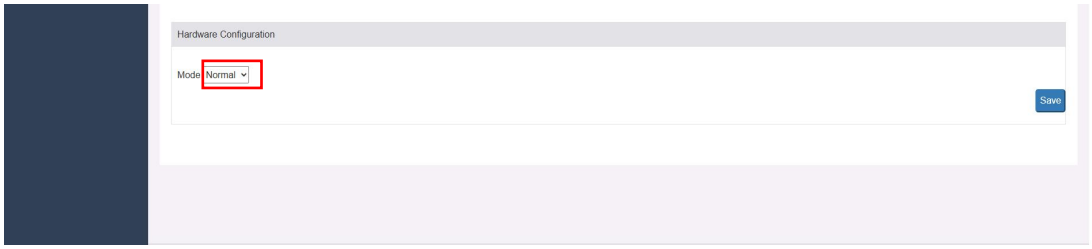
* The above mining pool information is the mining pool address we used for testing purposes. Before connecting to the mining pool, please log in to the respective mining pool's official website and check if the mining pool address has changed.

3.5.2 Remove

1. Clear the information in [Pool Configuration] and click [Save] to remove the mining pool.

3.5.3 Hardware Configuration

In the [Hardware Configuration] section, select Sleep mode and save to put the miner into sleep mode. In sleep mode, the fan speed will drop to 0 and mining will stop.

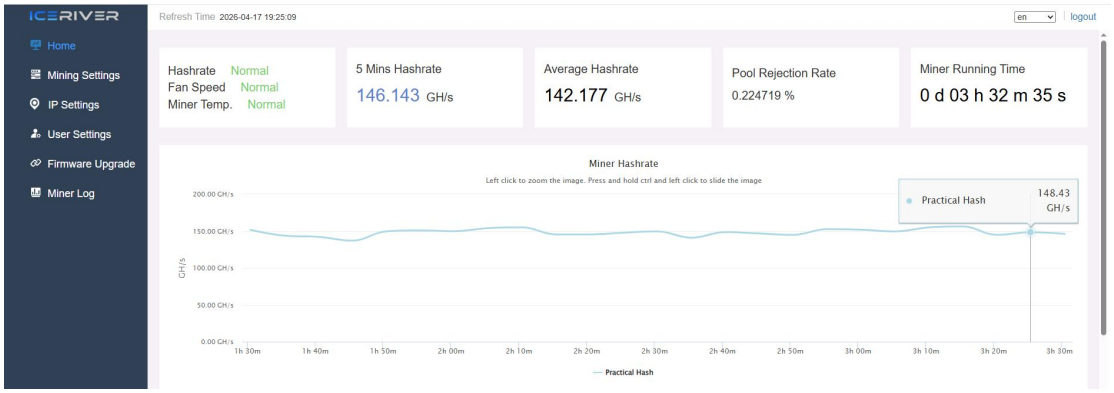


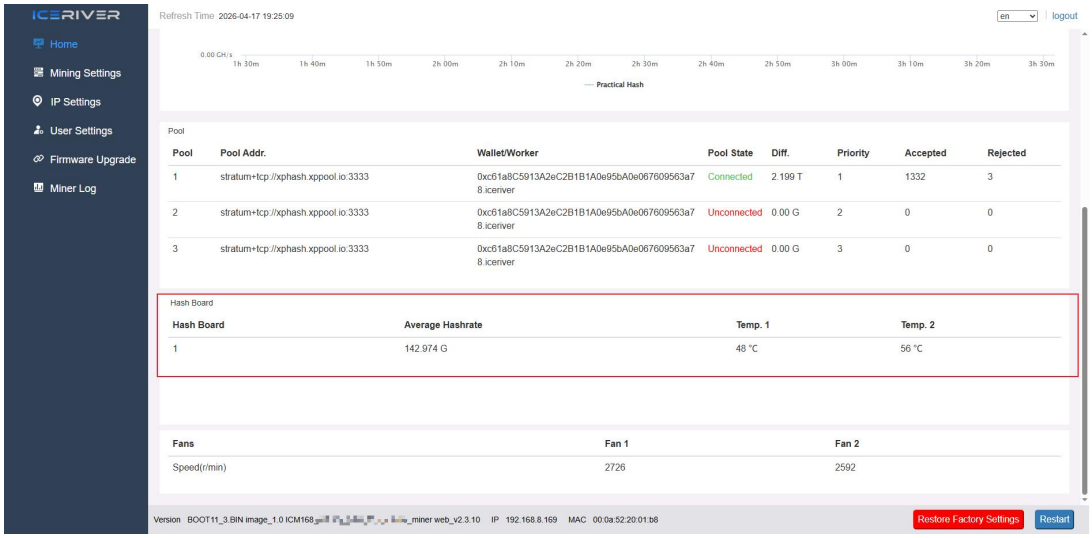
* The miner automatically adjusts fan speed to maintain optimal operating temperature; fan speed cannot be manually adjusted.

3.6 View Hashrate Chart

1. Click [Home] to view the Hashrate Chart.

* After 5 minutes of connecting to the pool, you can view the machine's hashrate and hashrate chart, the chart is updated every 5 minutes.
* Under [Hash board], you can view the machine temperature and fan speed, which can monitor the working status of the machine in real time.



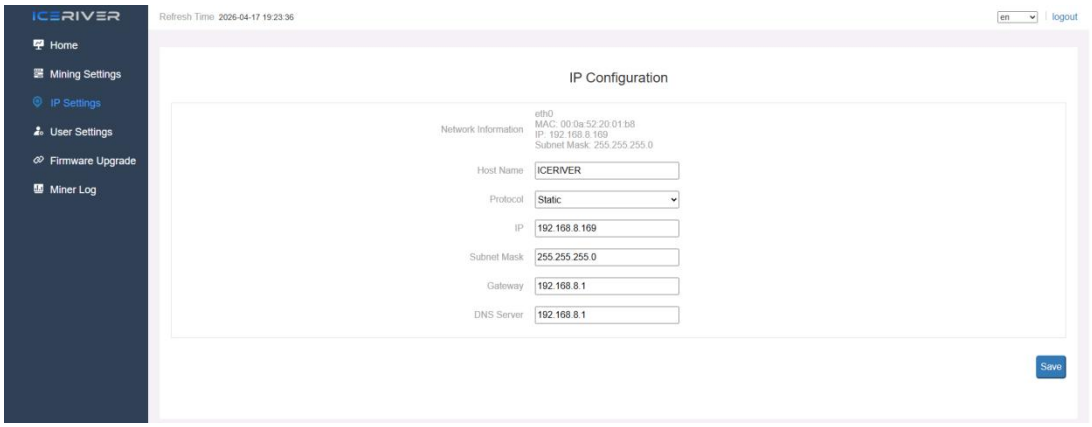


3.7 Network Settings

The factory default is DHCP mode, users can set the IP mode as needed.
Set static IP:

1. Click [IP Settings], select *Static* in [Protocol], enter the required IP information and then click [Save] button.

2. After saving the configuration, click [Restart] and wait for the machine to restart (do not power off during the Restart).



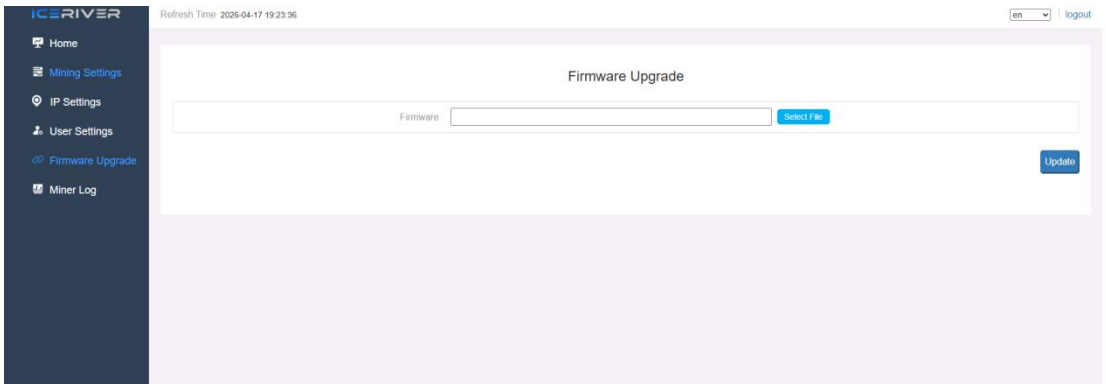
3.8 Firmware Upgrade

When the official website releases a new upgrade package, download it and upgrade it via the web interface.

1. Click [Firmware Upgrade], select the official upgrade package and click [Upgrade].

2. Wait for the pop-up window to show success and then click [Restart] and wait for the machine to restart. Do not power off the machine during the restart process.

3. After restart, the firmware upgrade is successful.



3.9 Factory Reset

When the machine has abnormal conditions, you can restore the factory settings through the Button on the machine.

1. After the green status light starts blinking following the power-up (1 minute after power on), press and hold Button for 20 seconds until the red status light starts blinking. Waiting until the red status light stops blinking, then wait for the machine to restart (do not power off the machine during the Restart process).

2. After the machine restarts, reconfigure the mining pool and wallet to resume mining.

3.10 Shutdown/Restart

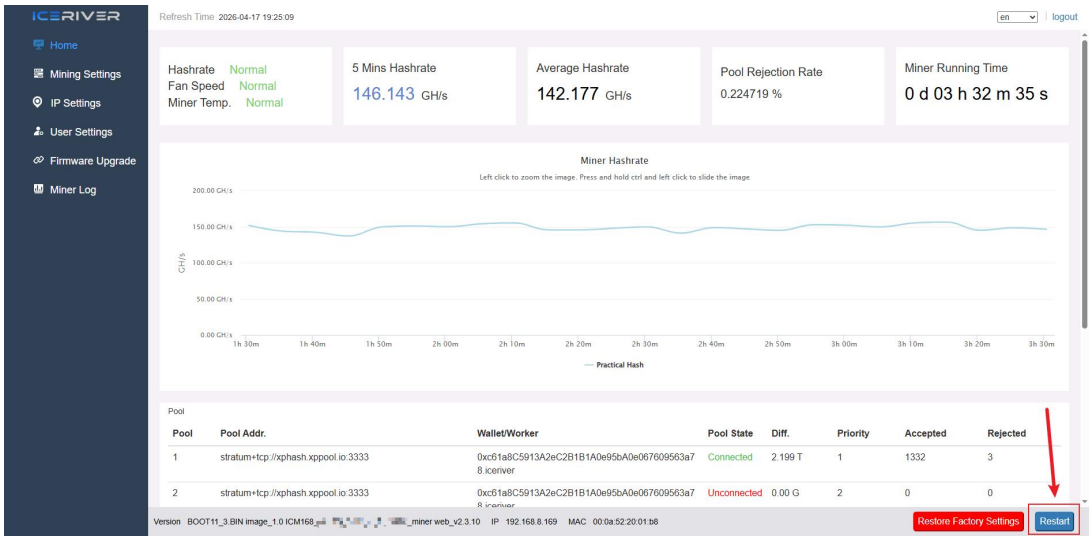
3.10.1 Shutdown

1. Power off by unplugging the Power Cord.

3.10.2 Restart

1. Click [Restart] in the bottom right corner of the home page, then click [OK] to confirm, then restart the machine.

* Note: Do not power off the machine during the restart process.



3.11 Viewing Miner Logs

Device logs are an important tool for recording the operating status of your device. They help users monitor performance, quickly identify faults, and analyze root causes. After logging into the device, click on the "Miner Log" option in the backend to view the log content.

3.11.1 Log Functions and Uses

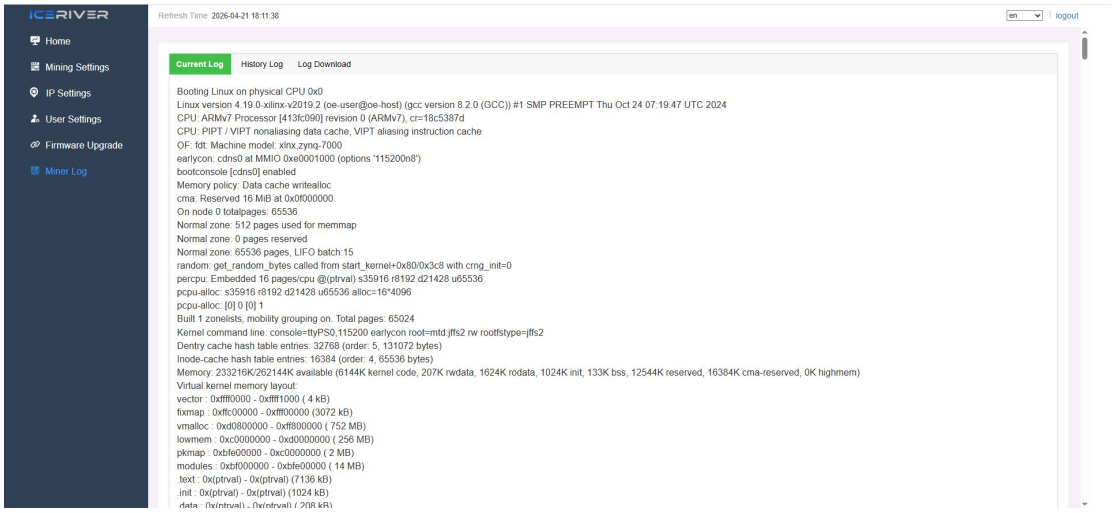
Device logs record operational data of the machine and are used for:

- Monitoring the miner's status (such as hashrate, temperature, fan speed).
- Diagnosing common faults (such as network disconnections or hashboard errors).
- Providing historical data to trace the root cause of issues, making maintenance and optimization easier.

3.11.2 Log Categories

1. Current Logs: These logs record the miner’s operational status since its last startup. They are useful for troubleshooting issues that occurred without a restart.

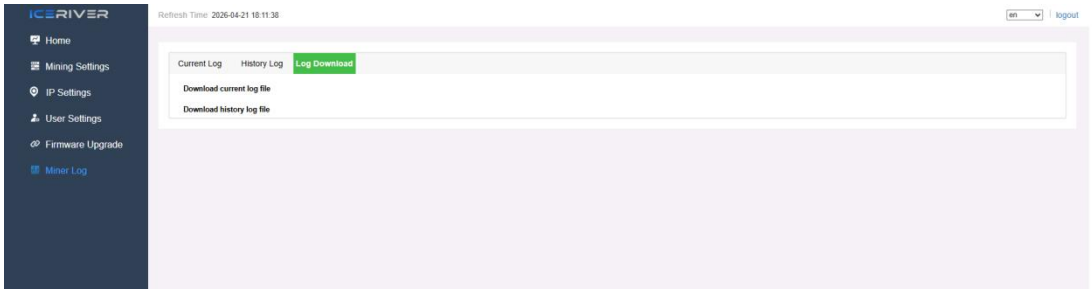
2. History Logs: These contain long-term operational data. The file size is fixed, and older logs are overwritten by new ones. After a restart, historical logs can be used to analyze the cause of faults.



3.11.3 How to Download Logs

1. Download Current Logs: Saves the complete logs of the current session.

2. Download History Logs: Saves all historical log records for future analysis.



4. Common Faults and Solutions

4.1 Faults and Solutions

4.1.1 Power Supply

The red and green status lights do not turn on after the power supply is connected.

Check whether the power connector is loose or disconnected, and whether the power cord is inserted tightly.

4.1.2 Network

- Network port light does not turn on:

Check whether the network cable is properly connected.

4.1.3 Fan

- The fans do not turn after power is applied:

Check whether the fan is obstructed or not operating properly.

4.1.4 High Temperature

- Machine temperature is too high:

1. Check that the machine is not covered or obstructed.
2. Check if the machine is placed in a well-ventilaited environment.
3. If additional cooling is required, use an external fan that meets the USB power specification of 5V ⎓ 0.5A max.

4.1.5 Hashrate does not reach the expected performance level

- Hashrate does not reach the expected performance level:

1. Check whether the surface temperature of the machine is too high. High temperature may trigger temperature protection and cause the machine to downscale. Place the machine in a well-ventilated environment or use an external fan to reduce the temperature.
2. For short-term hashrate fluctuations, please observe the 12-hour average hashrate.

- The difference between the Web hashrate and the mining pool hashrate is large:

Check whether the network connection is normal.

4.1.6 Unable to enter the Web operation page

- The browser displays 404 after entering the machine IP:

Restart the machine and re-enter the Web operation page.

4.1.7 Red and green lights blink simultaneously

Possible situations:
High Temperature Warning: The internal temperature of the machine has exceeded the normal range. This could be due to high ambient temperature, poor ventilation, or insufficient cooling of the device itself.

2. Network issue: The machine has encountered a problem while trying to communicate with the network. This could be due to unstable network connection, incorrect network settings, or incorrect mining pool configuration.

Troubleshooting steps:
1. Check the Machine Temperature: Ensure that the ambient temperature around the machine is not too high and check if the machine's ventilation openings are blocked. If the ambient temperature is high, move the machine to a well-ventilated area to ensure proper cooling.

2. Check Network Connection: Verify that the network connection is stable, check that network settings are correct, and ensure that the mining pool configuration is accurate. This will help ensure that the machine can connect to the mining pool properly.