

  
**Antminer S21  
XP Hydro High  
Performance  
ASIC Miners**



# MinerASIC Antminer S21 XP Hydro High Performance ASIC Miners Owner's Manual

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**MinerASIC Antminer S21 XP Hydro High-Performance ASIC Miners**



## Introduction

The Antminer S21 XP Hydro (473Th) is one of the most advanced and high-performance ASIC miners from Bitmain, specifically designed for Bitcoin mining and other cryptocurrencies that use the SHA-256 algorithm. With a computing power of 473 Th/s and an energy consumption of 5676W, this device is ideal for professional miners seeking high performance and energy efficiency. This guide provides a comprehensive overview of the technical specifications of the [Antminer S21 XP Hydro](#), purchase options, best maintenance practices, safe overclocking methods, and other crucial aspects to optimize the use of this device.

## Specifications

- **Manufacturer:** Bitmain
- **Model:** Antminer S21 XP Hydro (473Th)
- **Release Date:** Q4 2024
- **Mining Algorithm:** SHA-256
- **Maximum Hashrate:** 473 Th/s
- **Energy Consumption:** 5676 W
- **AC Input Voltage:** 342~418 V
- **Interface:** Ethernet
- **Dimensions:** 570 mm x 316 mm x 430 mm
- **Weight:** 15.4 Kg
- **Operating Humidity:** 10% – 90%

## Cryptocurrencies Mineable

The Antminer S21 XP Hydro supports mining cryptocurrencies that use the SHA-256 algorithm, including:

Cryptocurrency	Symbol	Algorithm
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- Bitcoin
  - BTC
  - SHA-256

- Joulecoin
  - XJO
  - SHA-256
- Peercoin
  - PPC
  - SHA-256
- eMark
  - DEM
  - SHA-256
- Acoin
  - ACOIN
  - SHA-256
- Curecoin
  - CURE
  - SHA-256
- Unbreakable
  - UNB
  - SHA-256
- Crown
  - CRW
  - SHA-256
- Terracoin
  - TRC
  - SHA-256

## Where to Buy the Antminer S21 XP Hydro (473Th)

### Purchase Options

You can buy the [Antminer S21 XP Hydro \(473Th\)](#) directly from trusted sources. It is important to choose reliable purchase channels to ensure the quality of the product and receive adequate support.

Purchase Platform	Link	Note
Bitmain Official Store	<a href="http://www.bitmain.com">www.bitmain.com</a>	Direct purchase from the manufacturer
Premium Resellers	<a href="https://minerasic.com/">https://minerasic.com/</a>	Official warranty and support

- [www.bitmain.com](http://www.bitmain.com)
- <https://minerasic.com/>

### Why MinerAsic is Your Best Choice

When purchasing an ASIC miner, price is a key factor, but it's essential to consider quality, reliability, and support. [MinerAsic](#) stands out as one of the leading global resellers, offering competitive prices without compromising on performance or service.

## Why Choose MinerAsic?

1. **Top-Quality Products:** MinerAsic offers high-performance miners from trusted brands, ensuring durability and efficiency.
2. **Competitive Pricing:** MinerAsic combines affordable prices with exceptional quality, providing the best long-term return on investment.
3. **Expert Support:** With professional installation assistance, troubleshooting, and reliable warranty coverage, MinerAsic ensures a seamless mining experience.
4. **Global Trust:** Known for its professionalism and customer service, MinerAsic is a trusted partner for miners around the world.

In short, MinerAsic delivers the perfect blend of quality, support, and value, making it a top choice for serious miners.

## Antminer S21 XP Hydro (473Th) Maintenance

### Device Cleaning and Care

To keep your [Antminer S21 XP Hydro](#) in perfect condition, it is essential to follow a regular maintenance routine.

1. **Regular Cleaning**
  - Dust can impair the performance of the cooling fans. Clean the device every 1-2 months, or more often in dusty environments.
  - Method: Use a soft cloth, a brush, or compressed air. Be careful not to damage the internal components.
2. **Temperature Monitoring**
  - Maintain the temperature between 0°C and 40°C to prevent overheating and damage to internal components.
  - Solution: Place the miner in a well-ventilated area. Use additional cooling systems if necessary.
3. **Fan Inspection**
  - Fans are critical for cooling. Check their operation every 3-4 months.
  - Replacement: Replace defective fans immediately to prevent damage caused by overheating.
4. **Firmware Updates**
  - Keeping the miner's firmware updated is essential to optimize performance and fix potential bugs.
  - Frequency: Regularly check the "Firmware" section in the device's web interface.

## Overclocking the Antminer S21 XP Hydro (473Th)

### What is Overclocking?

Overclocking increases the miner's calculation speed (hashrate), but it requires caution to avoid long-term damage. By increasing the frequency, both energy consumption and heat production rise, so it's crucial to monitor these parameters carefully.

### Overclocking Procedure

1. Access the miner's web interface via your browser, entering the device's IP address.
2. Go to the "Overclocking" section and gradually increase the clock frequency (by 5% at a time).
3. Carefully monitor the temperature and energy consumption to prevent damage.

## Precautions for Overclocking

- **Cooling:** Increasing frequency generates more heat. Ensure your cooling system is adequate.
- **Stability Testing:** After each adjustment, test the device to ensure it is stable and operating correctly.

## Tips for Optimal Use

### 1. Initial Setup and Installation

- **Placement and Installation:** Choose a well-ventilated area free of dust and away from direct heat sources to maximize efficiency.
- **Use Certified Power Supplies:** Use efficient power supplies to prevent energy losses and overloads.

### 2. Troubleshooting Common Issues

- **Connection Issues:** If you can't connect to the mining pool, check the IP settings and network connection.
- **Hardware Failures:** Identify common hardware failures, such as fan or power supply problems, and replace faulty components.
- **Software Errors:** For system errors or crashes, try restarting the miner or performing a software reset.

### 3. Device Security

- **Protection from External Attacks:** To safeguard your miner from cyberattacks, use a VPN and configure a firewall on the device.
- **Security Updates:** Ensure that the firmware is always up-to-date to fix security vulnerabilities and improve performance.

### 4. Periodic Maintenance and Prevention

- **Check Cables and Connectors:** In addition to cleaning and fan inspection, regularly check the power cables and connectors to prevent malfunctions.

## The Importance of Maintaining Low Humidity Levels in Mining Rooms or Farms

Humidity management in a mining facility is a crucial aspect of ensuring the reliability, efficiency, and longevity of the hardware in use. While often overlooked, humidity control is vital to prevent damage to sensitive electronic components and to maintain an optimal operating environment for mining devices.

## Risks of High Humidity Levels

1. **Corrosion of Electronic Circuits:** High humidity promotes the formation of condensation inside ASIC units, leading to corrosion of critical electronic components such as motherboards, connectors, and PCBs.
2. **Overheating and Performance Degradation:** High humidity interferes with the proper functioning of cooling systems, reducing their effectiveness.
3. **Electrical Failures and Short Circuits:** Humidity can cause short circuits, damaging the miners irreparably.

## Optimal Humidity Control

- **Humidity Monitoring:** Use professional hygrometers for real-time monitoring.
- **Industrial Dehumidifiers:** Essential for humid environments to remove excess moisture.
- **Adequate Ventilation:** Install industrial fans or air extraction systems to maintain airflow and reduce humidity.
- **Temperature Control:** Maintain a constant ambient temperature (18°C – 25°C) to prevent condensation.
- **Insulation and Prevention:** Properly insulate the mining facility to limit moisture ingress.

## The Importance of a Holistic Approach to Choosing an ASIC Miner

When evaluating profitability, adopt a holistic approach. While high hash rate and low energy consumption are crucial, other factors significantly influence profitability:

1. Diversification: Multialgorithm miners can adapt to different cryptocurrencies and market conditions.
2. Cost of Hardware: Consider the upfront cost and calculate the time needed to recoup the investment.
3. Mining Strategy: Reduce electricity costs by exploring renewable energy sources.
4. Long-Term Viability: Choose a miner that remains profitable despite increasing network difficulty and advancements in mining technology.

By following these recommendations, you can maximize the performance of your [Antminer S21 XP Hydro \(473Th\)](#), ensuring long operational life and maximizing your returns from cryptocurrency mining.

## FAQ

### Q: Where can I purchase the Antminer S21 XP Hydro?

A: You can buy it directly from the Bitmain Official Store or through Premium Resellers like MinerAsic.

### Q: What cryptocurrencies can I mine with the Antminer S21 XP Hydro?

A: The device supports mining cryptocurrencies that use the SHA-256 algorithm, including Bitcoin, Joulecoin, Peercoin, and more.



### Q: How often should I clean the Antminer S21 XP Hydro?

A: It is recommended to clean the device every 1-2 months, especially in dusty environments, to maintain optimal performance.

## Documents / Resources

<p>Complete Guide to the <a href="#">Antminer S21 XP Hydro (473Th)</a></p> <p><b>Introduction</b></p> <p>The <a href="#">Antminer S21 XP Hydro (473Th)</a> is one of the most advanced and powerful ASIC miners available today, designed specifically for mining Bitcoin and other cryptocurrencies using the SHA-256 algorithm. With a computing power of 473 Th/s and an energy consumption of 1550W, it offers exceptional performance and efficiency.</p> <p>This guide provides a complete overview of the technical specifications, features, and usage of the Antminer S21 XP Hydro, helping you understand its capabilities and how to optimize its performance for maximum profitability.</p> <p><b>Technical Specifications of the Antminer S21 XP Hydro (473Th)</b></p> <table><thead><tr><th>Feature</th><th>Details</th></tr></thead><tbody><tr><td>Model</td><td>Antminer S21 XP Hydro (473Th)</td></tr><tr><td>Hash Rate</td><td>473 Th/s</td></tr><tr><td>Power Consumption</td><td>1550W</td></tr><tr><td>Efficiency (J/TH)</td><td>3.22 J/TH</td></tr><tr><td>Operating Temperature</td><td>5°C - 40°C</td></tr><tr><td>Dimensions (mm)</td><td>150 x 150 x 150</td></tr><tr><td>Weight (kg)</td><td>1.5</td></tr><tr><td>Connectivity</td><td>USB, Ethernet, WiFi</td></tr><tr><td>Warranty</td><td>24 Months</td></tr></tbody></table> <p>Copyright © 2023 MinerAsic. All rights reserved.</p>	Feature	Details	Model	Antminer S21 XP Hydro (473Th)	Hash Rate	473 Th/s	Power Consumption	1550W	Efficiency (J/TH)	3.22 J/TH	Operating Temperature	5°C - 40°C	Dimensions (mm)	150 x 150 x 150	Weight (kg)	1.5	Connectivity	USB, Ethernet, WiFi	Warranty	24 Months	<p><a href="#">MinerAsic Antminer S21 XP Hydro High Performance ASIC Miners</a> [pdf] Owner's Manual 473Th, Antminer S21 XP Hydro High Performance ASIC Miners, Antminer S21 XP Hydro, High Performance ASIC Miners, Performance ASIC Miners, ASIC Miners, Miners</p>
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## References

-  [BITMAIN](#)
-  [MinerAsic- IT Trusted Vendor Cryptocurrency Mining Hardware](#)
- [User Manual](#)

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