

MinerAsic Antminer S21 XP+ Hydro Advanced and High Performance ASIC Miners Owner's Manual

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MinerAsic Antminer S21 XP+ Hydro Advanced and High Performance ASIC Miners



Technical Specifications

• Manufacturer: Bitmain

• Model: Antminer S21 XP+ Hydro (500Th)

• First Release: Q3 2025

Mining Algorithm: SHA-256
Maximum Hashrate: 500 Th/s
Energy Consumption: 5500 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%

Product Usage Instructions

Cryptocurrencies Mineable

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

Cryptocurrency Symbol	Algorithm
Bitcoin	SHA-256

Where to Buy

You can purchase the Antminer S21 XP+ Hydro (500Th) from the Bitmain official website or through premium resellers. Ensure to choose reliable purchase channels for product quality and support.

Maintenance

• To maintain your Antminer S21 XP+ Hydro.

- Regular Cleaning: Clean every 1-2 months with a soft cloth or compressed air.
- Fan Inspection: Check every 3-4 months and replace defective fans promptly.
- Firmware Updates: Regularly update firmware via the device's web interface for optimal performance.

Overclocking

Overclocking increases the hash rate but monitors energy consumption and heat.

- 1. Access web interface via browser.
- 2. Increase clock frequency gradually in the Overclocking section.
- 3. Monitor temperature and energy consumption.

Introduction

- Complete Guide to the Antminer S21 XP+ Hydro (500Th)
- The <u>Antminer S21 XP+ Hydro (500Th)</u> from Bitmain is one of the most advanced and high-performance ASIC miners specifically designed for Bitcoin mining and other cryptocurrencies that use the SHA-256 algorithm.
- With an impressive computing power of 500 Th/s and power consumption of 5500W, this miner is ideal for professional miners seeking exceptional performance and energy efficiency.
- This guide provides a comprehensive overview of the technical specifications of the <u>Antminer S21 XP+ Hydro</u>, purchase options, best maintenance practices, safe overclocking methods, and other essential aspects to optimize the use of this device.
- Technical Specifications of the <u>Antminer S21 XP+ Hydro (500Th)</u>

Main Features

Feature	Details
Manufacturer	Bitmain
Model	Antminer S21 XP+ Hydro (500Th)
First Release	Q3 2025
Mining Algorithm	SHA-256
Maximum Hashrate	500 Th/s
Energy Consumption	5500 W
AC Input Voltage	342~418 V
Interface	Ethernet
Dimensions	570 mm x 316 mm x 430 mm
Weight	15.4 Kg
Operating Temperature	0°C – 40°C
Operating Humidity	10% – 90%

Cryptocurrencies Mineable

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

Cryptocurrency	Symbol	Algorithm
Bitcoin	втс	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 (500Th)

Purchase Options

- You can buy the <u>Antminer S21 XP+ Hydro (500Th)</u> directly from the Bitmain official website or through premium resellers.
- It is important to choose reliable purchase channels to ensure the quality of the product and receive proper support.

Purchase Platform Link Note

- Bitmain Official Store www.bitmain.com Direct purchase from the manufacturer
- Premium Resellers https://minerasic.com/ Official warranty and support

ASIC Miner Price: Why MinerAsic is Your Best Choice

 When purchasing an <u>ASIC miner</u>, price is a key factor, but it's also crucial to consider the overall quality, reliability, and support. MinerAsic is a top-tier reseller offering competitive prices without compromising on performance.

Why Choose MinerAsic?

- Top-Quality Products: High-performance miners from trusted brands, ensuring durability and efficiency.
- Competitive Pricing: MinerAsic combines affordable prices with exceptional quality, providing the best longterm return on investment.
- Expert Support: Professional installation assistance, troubleshooting, and reliable warranty coverage ensure a seamless dining experience.

- **Global Trust:** Known for professionalism and customer service, MinerAsic is a trusted partner for miners worldwide.
- Antminer S21 XP+ Hydro (500Th) Maintenance

Device Cleaning and Care

- To keep your **Antminer S21 XP+ Hydro** in perfect condition, follow a regular maintenance routine.
 - Regular Cleaning: Dust can impair the performance of the cooling fans. Clean the device every 1-2months 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: Keep the miner's firmware updated to optimize performance and fix potential bugs.
 - Frequency: Regularly check the "Firmware" section in the device's web interface.
- Overclocking the <u>Antminer S21 XP+ Hydro (500Th)</u>

What is Overclocking?

Overclocking increases the miner's calculation speed (hash rate), 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: Overclocking 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: Prevent energy losses and overloads by using efficient power supplies.
- 2. Troubleshooting Common Issues:
- 3. Device Security:

- Protection from External Attacks: Safeguard your miner from cyberattacks by using a VPN and configuring a firewall.
- 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: Regularly check power cables and connectors to prevent malfunctions.

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

- Humidity management is crucial to ensure the reliability, efficiency, and longevity of mining hardware. High humidity levels can cause corrosion, overheating, and electrical failures.
- Keeping humidity between 40% and 60% helps mitigate these risks and enhances overall performance.
- The <u>Antminer S21 XP+ Hydro (500Th)</u> is a powerful and efficient choice for those serious about Bitcoin mining.
- By following proper maintenance routines, ensuring adequate cooling, and practicing safe overclocking, you can maximize its performance and lifespan.
- Whether you're just starting or are a seasoned miner, the <u>Antminer S21 XP+ Hydro</u> is a fantastic investment in your mining operations.

FAQ

- Why Choose MinerAsic?
 - MinerAsic offers top-quality products, competitive pricing, expert support, and global trust for a seamless dining experience.

Documents / Resources



MinerAsic Antminer S21 XP+ Hydro Advanced and High Performance ASIC Miners [pdf] O wner's Manual

500Th, Antminer S21 XP Hydro Advanced and High Performance ASIC Miners, Antminer S21 X P Hydro, Advanced and High Performance ASIC Miners, High Performance ASIC Miners, Performance ASIC Miners, ASIC Miners, Miners

References

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- MinerAsic- IT Trusted Vendor Cryptocurrency Mining Hardware
- User Manual

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