



## MinerAsic Antminer S21 Hydro High Performance ASIC Miner Owner's Manual

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MinerAsic Antminer S21 Hydro High Performance ASIC Miner



Complete Guide to the [Antminer S21 Hydro \(335Th\)](#)

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Introduction

The [Antminer S21 Hydro \(335Th\)](#) from Bitmain is a high-performance ASIC miner designed for Bitcoin (BTC) mining using the SHA-256 algorithm. With a maximum hashrate of 335 TH/s and a power consumption of 5300W, the [Antminer S21 Hydro \(335Th\)](#) is one of the most powerful and efficient miners available in the market. It offers exceptional efficiency, performance, and reliability for both large-scale mining operations and individual miners looking to maximize their returns.

Released in March 2024, the [Antminer S21 Hydro](#) employs liquid cooling to maintain optimal performance, ensuring it operates at maximum efficiency without overheating. This is particularly beneficial for maintaining consistent performance during high-intensity mining tasks.

In this guide, we will cover the [Antminer S21 Hydro \(335Th\)](#)'s specifications, mineable coins, setup instructions, and best practices for maintenance and troubleshooting.

Technical Specifications of the [Antminer S21 Hydro \(335Th\)](#)

The [Antminer S21 Hydro \(335Th\)](#) is built for top-tier mining performance and efficiency. Below are the key specifications:

Feature	Details
Manufacturer	Bitmain
Model	Antminer S21 Hydro (335Th)
First Release	March 2024
Mining Algorithm	SHA-256
Maximum Hashrate	335 TH/s
Power Consumption	5304 W
AC Input Voltage	12 V
Interface	Ethernet
Dimensions	570 mm x 316 mm x 430 mm
Weight	15.4 kg
Cooling	Liquid Cooling
Temperature	0 – 40 °C
Humidity	10 – 90 %

## Key Features

1. Maximum Hashrate: The [Antminer S21 Hydro \(335Th\)](#) boasts an impressive 335 TH/s hashrate, allowing miners to process Bitcoin transactions quickly and efficiently.
2. Efficient Power Consumption: With a power consumption of 5304W, the Antminer S21 Hydro offers a great balance of high performance and power efficiency, making it a profitable option for miners.
3. Liquid Cooling System: The miner uses liquid cooling, which provides better thermal management, allowing the device to run cooler and more efficiently even during extended mining sessions.
4. Compact Design: Despite its power, the Antminer S21 Hydro (335Th) maintains a relatively compact size of 570 x 316 x 430 mm and weighs 15.4 kg, making it suitable for various mining setups.
5. Noise Level: The miner operates with a relatively moderate noise level, making it better suited for industrial or data center mining operations, as the liquid cooling system helps reduce the need for additional fan-based cooling.

## Mineable Coins

The [Antminer S21 Hydro \(335Th\)](#) is primarily designed for mining SHA-256 coins. Here's a list of the mineable coins with this powerful machine:

### Cryptocurrency Symbol Algorithm

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 Hydro (335Th)

## Purchase Platforms

You can purchase the [Antminer S21 Hydro \(335Th\)](#) either directly from Bitmain or from authorized resellers. Be sure to buy from reliable sources to ensure warranty and customer support.

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

- **Bitmain Official Store:** Directly from Bitmain, the official manufacturer, ensuring that you get an authentic miner with proper warranty support.
- **Authorized Resellers:** Reputable resellers, such as [MinerAsic](#), offer excellent after-sale support and warranties, making them a good alternative for buyers looking for competitive pricing.

## **Setup and Installation**

### **Initial Setup Instructions**

1. **Power Supply Requirements:** The [Antminer S21 Hydro](#) (335Th) requires a 12V input, with a power consumption of 5304W. Use a high-quality power supply unit (PSU) that can provide consistent and sufficient power to the miner.
2. **Network Setup:** The miner comes with an Ethernet port to connect it to your local network. Use a stable and high-speed internet connection to ensure uninterrupted mining operations.
3. **Placement:** The Antminer S21 Hydro is designed for industrial or data center environments. Ensure the miner is placed in a cool and dry location, ideally with sufficient space for ventilation.
4. **Cooling:** The liquid cooling system should be checked regularly to ensure it is functioning properly. Make sure the coolant levels are maintained, and there are no obstructions in the cooling channels.
5. **Ethernet Configuration:** Once connected to the network, access the Antminer S21 Hydro's IP address through a browser to set up your mining pool, monitor performance, and adjust settings.

### **Maintenance of the [Antminer S21 Hydro \(335Th\)](#)**

Regular maintenance is essential to keep the [Antminer S21 Hydro \(335Th\)](#) running smoothly.

1. **Cooling System:** Check the liquid cooling system frequently for leaks or issues. Ensure that the coolant is at the correct level and the system is working efficiently.
2. **Firmware Updates:** Bitmain regularly releases firmware updates that improve the miner's performance and security. Ensure your miner is up to date by visiting the Bitmain website or the miner's control panel.
3. **Network Stability:** Since mining is highly dependent on continuous network connectivity, regularly check the Ethernet cable and network settings to ensure no disruptions in mining.
4. **Dust and Debris:** Clean the miner regularly, especially the external parts, to prevent dust buildup that could clog the cooling system or affect airflow.

### **Troubleshooting the [Antminer S21 Hydro \(335Th\)](#)**

In case you encounter issues with the [Antminer S21 Hydro \(335Th\)](#), here are some common troubleshooting tips:


1. **Miner Not Responding:** If the miner does not respond, first check the power supply unit and the Ethernet connection. Restart the miner and ensure it has proper internet access.
2. **Overheating:** If the miner is overheating, ensure that the cooling system is working properly. Check for any obstructions in the liquid cooling pipes or fans and verify that the operating environment temperature is within the recommended range (0-40°C).
3. **Low Hashrate:** If the hashrate is lower than expected, check if the mining pool settings are correctly configured.

Additionally, ensure that the firmware is up to date.




The [Antminer S21 Hydro \(335Th\)](#) from Bitmain is an excellent choice for serious Bitcoin miners who require high efficiency and reliability. With its liquid cooling system, powerful hashrate, and energy efficiency, it provides an optimal solution for industrial-scale mining operations. By following the setup, maintenance, and troubleshooting steps outlined in this guide, you can ensure your miner operates at peak performance, maximizing profitability and minimizing downtime



## Documents / Resources

	<a href="#">MinerASIC Antminer S21 Hydro High Performance ASIC Miner</a> [pdf] Owner's Manual 335Th, Antminer S21 Hydro High Performance ASIC Miner, Antminer S21 Hydro, High Performance ASIC Miner, ASIC Miner, Miner
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## References

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

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