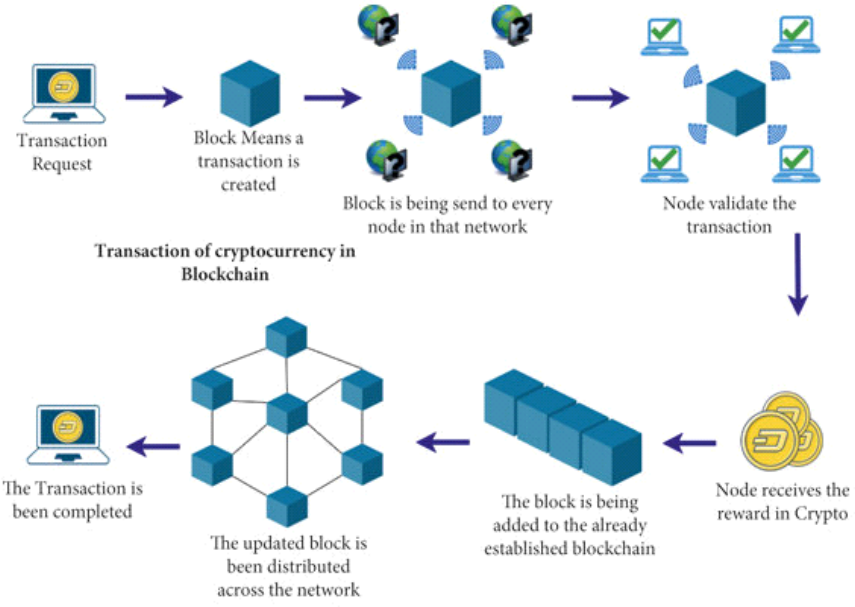
A guide to mining Aegisum

Mining Aegisum helps secure the Aegisum network, regardless of finding a block. If you do find a block, you receive a block reward of 500 AEGS (until the first block reward halving is in effect Q3 2025 by estimation).

The ins and outs of mining

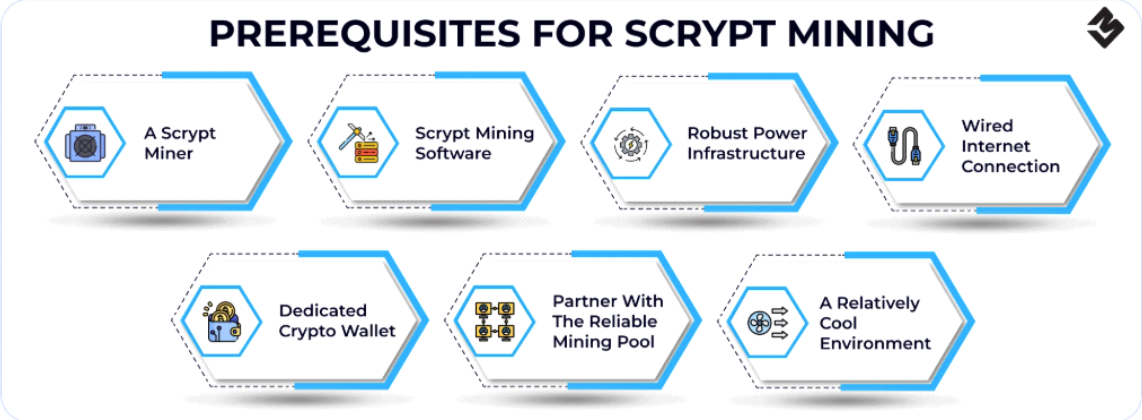
Aegisum's network is secured using the same hashing algorithm as Dogecoin and Litecoin. Miners repeatedly hash the block header using Scrypt, adjusting the nonce until they find a hash that meets the current difficulty target. Once a valid hash is found, the new block is added to the blockchain, updating everyone's ledger (block history).



More importantly, the Merkle tree, which contains transaction data, is used to generate the Merkle root. The block header—including the Merkle root, timestamp, difficulty target, nonce, and previous block hash—is then hashed using the Scrypt algorithm. Miners modify the nonce and rehash the block header until they produce a valid hash, thereby solving the proof-of-work.

Devices capable of competitively hashing block headers using Scrypt no longer include consumer hardware such as CPUs and GPUs. Instead, specialized equipment known as **ASICs** (Application-Specific Integrated Circuits) is required to generate a valid hash within a reasonable time frame.

However, as more miners operate multiple ASICs, the likelihood of an individual miner finding a block decreases significantly. This is where mining pools come into play, allowing miners to combine their hashing power and earn rewards based on their contributions. Pools use different reward schemes, such as **PPS** (Pay Per Share), **PPLNS** (Pay Per Last N Shares), and **PROP** (Proportional), to fairly distribute earnings among participants.



How to mine Aegisum

Using your own Mining Rig

To mine Aegisum, you can purchase an ASIC, such as the Mini Doge 3 to get started. To mine using an ASIC, you will need to:

1. **Connect it to power** – Ensure your power outlet can supply adequate power, as some ASICs require more power than standard outlets provide. Setting up and running an ASIC may require additional preparation.
2. **Connect it to the internet** – A stable internet connection is essential for uninterrupted mining.
3. **Access the ASIC's web interface** – Use its IP address to log in and configure the mining settings.
4. **Select a compatible Aegisum mining pool** – Choose between:
    - **Solo Mining** – You compete against the entire network to find a valid hash. If successful, you receive the full block reward.
    - **Pooled Mining** – You contribute your hashing power to a group of miners and receive rewards based on the pool's payout scheme (which varies by pool).

Renting Hash Power

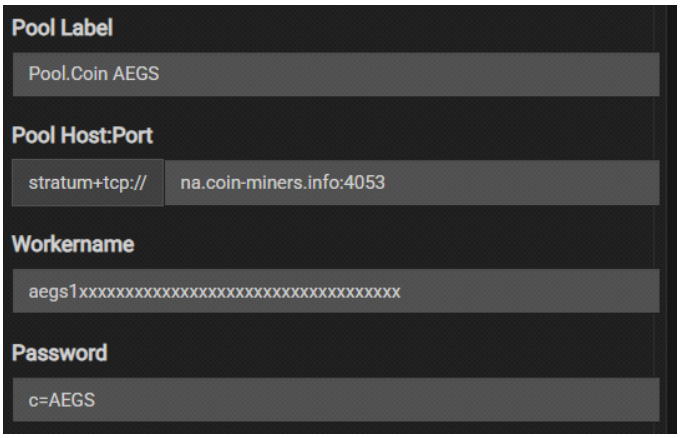
If you choose to rent an ASIC through **Mining Rig Rentals**, the setup is much simpler. To mine Aegisum by renting mining rigs, follow these steps:

1. Register for an account by going to https://www.miningrigrentals.com/ and add to your balance by sending to one of your deposit addresses.
2. Go to Market from the top menu and select Scrypt. You will then choose a rig that meets your hash power and cost needs. It is very important that you select the correct algorithm from the market options.
3. Next, go to https://miningpoolstats.stream/aegisum and select your preferred pool. Once you have gathered the pool information, you will then return to MiningRigRentals and enter the mining pool details, and provide a worker username—this is your Aegisum wallet address (always begins with *aegs1*), which will be used to receive payouts.
4. Finally, you will enter the password for the type of mining you want to do:

c=AEGS for shared mining

m=solo for solo mining

Here's an example of how you would set up a shared mining profile for Aegisum:



For more mining resources and to contact Aegisum support, join our Discord server https://discord.gg/aegisum

Resources

- What is a Merkle tree https://www.cyfrin.io/blog/what-is-a-merkle-tree-merkle-proof-and-merkle-root

- How to choose a Scrypt miner https://www.cryptominerbros.com/blog/top-scrypt-miners/

- Understanding solo vs shared mining
https://minerstat.com/help/difference-between-solo-mining-and-pool-mining

The information on this guide is accurate as of March 2025.