## OEMGMINER V2 Dongle USB 300kh

# OEMGMINER NerdMiner V2 300KH USB Bitcoin Solo Lottery Miner

Model: V2 Dongle USB 300kh

## Introduction

The OEMGMINER NerdMiner V2 300KH USB Bitcoin Solo Lottery Miner is a compact, low-power device designed for individuals interested in participating in Bitcoin solo mining. This device offers a unique opportunity to engage with the Bitcoin network with minimal energy consumption, providing a fun and educational experience in the world of cryptocurrency mining. It connects via WiFi and is powered through a USB-A port, making it highly accessible for various setups.




*Image: The NerdMiner V2 device, a compact USB dongle with an integrated display, shown in a user's hand.*

## Included Accessories

- Main unit (NerdMiner V2 300KH USB Dongle)

- Two acrylic plates (for casing)
- Four long screws
- Four gold screws
- Four short screws
- USB-A power cable
- Small screwdriver (for assembly)




*Image: All components of the NerdMiner V2 laid out, including the main circuit board with display, clear acrylic casing pieces, various screws, and a small screwdriver for assembly.*

## Setup

### 1. Assembly

1. Remove the protective film from both acrylic plates.
2. Align the main unit with the screw holes on one of the acrylic back plates.

3. Install the short screws and gold screws into the four corners to secure the main unit to the back plate.
4. Place the front acrylic plate on the unit, ensuring the notches are aligned.
5. Insert the long screws into the four corners, making sure they align with the gold screws, and tighten them to complete the assembly.

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*Video: A step-by-step guide demonstrating how to assemble the acrylic case for the NerdMiner V2, including peeling protective films, aligning components, and securing them with screws.*




*Image: A side view of the NerdMiner V2 USB dongle, highlighting its compact design and USB-A connector.*

## 2. Initial Configuration (WiFi & Wallet)

1. Plug the NerdMiner V2 into a USB-A power source (e.g., PC, Raspberry Pi, or power adapter). The device display will power on.
2. On your mobile phone or computer, open your WiFi settings.
3. Look for a WiFi network named "nmap-2.4g" and connect to it. A setup page should automatically pop up in your

browser. If not, navigate to http://192.168.4.1.

4. On the setup page, tap "Configure WiFi".
5. Select your home or preferred WiFi network from the list and enter its password.
6. Paste your primary Bitcoin (BTC) address into the designated field.
7. Review other settings (pool URL, pool password, time zone) and adjust if necessary. Default settings are often sufficient for initial use.
8. Click "Save" and then "Reset". The device will attempt to connect to your configured WiFi network.
9. Wait approximately 10 seconds for the device to connect and update its display. If connection fails, try reconnecting to the "nmap-2.4g" network and repeating the steps.

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*Video: Instructions on how to connect the NerdMiner V2 to a WiFi network and configure the Bitcoin wallet address using a mobile phone interface.*




*Image: A close-up of the NerdMiner V2's display, showing various mining statistics and network information, including hash rate and IP address.*

## Operating Instructions

Once configured, the NerdMiner V2 will automatically begin the solo mining process. The integrated LCD display provides real-time information about its operation.

- **Monitoring:** The display cycles through various screens showing current hash rate (KH/s), best difficulty, number of workers, current block information, and sometimes even current cryptocurrency prices.
- **Display Options:** Some versions of the firmware allow you to cycle through different display modes by pressing a button on the device. This can show different statistics or a clock.
- **Power Consumption:** The device operates at a very low power consumption of approximately 3W, making it suitable for continuous operation.

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*Video: A demonstration of the NerdMiner V2 in operation, showcasing its display cycling through various mining statistics and information.*



*Image: A detailed view of the NerdMiner V2's display, showing real-time mining statistics such as hash rate, block templates, difficulty, and valid blocks.*




*Image: The NerdMiner V2 shown connected to various power sources, including a laptop, USB hub, PC computer, and a charger, illustrating its versatile application scenarios.*

## Maintenance

- **Cleaning:** Keep the device clean and free from dust. Use a soft, dry cloth to wipe the display and casing. Avoid using liquid cleaners directly on the device.
- **Ventilation:** Ensure the device is placed in a well-ventilated area to prevent overheating, although its low power consumption minimizes heat generation.
- **Firmware Updates:** Periodically check the official OEMGMINER website or community forums for any available firmware updates to ensure optimal performance and access to new features.
- **Power Source:** Use a stable USB-A power source to prevent unexpected shutdowns or damage to the device.

## Troubleshooting

- **Device Not Powering On:**
  - Ensure the USB-A cable is securely connected to both the device and the power source.
  - Try a different USB-A port or power adapter to rule out a faulty power source.
- **No WiFi Connection:**
  - Re-enter your WiFi credentials through the configuration steps outlined in the "Initial Configuration" section.
  - Ensure your WiFi network is 2.4GHz, as the device may not support 5GHz networks.
  - Verify that the WiFi password is correct.
  - Move the device closer to your WiFi router to improve signal strength.
- **Display Not Updating or Freezing:**
  - Perform a soft reset by unplugging and re-plugging the device.
  - If the issue persists, try a factory reset using the reset button (refer to assembly video for button location) and reconfigure the device.
- **Low Hash Rate:**
  - The NerdMiner V2 is designed for low-power solo mining, and its hash rate is inherently low compared to industrial miners. This is expected behavior.
  - Ensure a stable internet connection for consistent mining activity.

## Specifications

| Feature | Detail |
|---|---|
| **Product Dimensions** | 1.69 x 0.8 x 1.69 inches |
| **Item Weight** | 3.52 ounces |
| **Item Model Number** | V2 Dongle USB 300kh |
| **Brand** | OEMGMINER |
| **Compatible Devices** | Laptop |
| **Connector Type** | USB-A |
| **Output Wattage** | 3 Watts |
| **Wattage** | 3 Watts |
| **Cooling Method** | Air |
| **Minimum Input Voltage** | 4.4 Volts (DC) |

## Important Notes on Solo Mining

The NerdMiner V2 is a **Bitcoin solo lottery miner**. This means it attempts to find a new Bitcoin block on its own. If successful, the reward is significant (currently 3.125 BTC per block). However, due to the extremely high difficulty of the Bitcoin network, the probability of a single low-power device like the NerdMiner V2 successfully mining a block is **exceptionally low**. It is designed more as an educational tool, a conversation piece, and a fun, low-risk way to engage with Bitcoin mining, rather than a reliable source of income.

Users should understand that winning a block is akin to winning a lottery. While the device operates with very low power consumption (3W), making it energy-efficient, the primary purpose is for learning and hobbyist engagement with the mining process.

## Warranty and Support

For warranty information and technical support, please refer to the official OEMGMINER store on Amazon or contact the manufacturer directly. Keep your purchase receipt for any warranty claims.

**Protection Plans:** Additional protection plans may be available for purchase. Please check the product listing for details on 3-Year, 4-Year, or Complete Protect plans.

**Return Policy:** Standard return policies apply. Please refer to the retailer's return policy for details on eligibility and procedures.

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