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## Piecemaster Bobcat 300

# Piecemaster Bobcat 300 Hotspot Helium Miner User Manual

Model: Bobcat 300

## INTRODUCTION

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This manual provides essential instructions for the setup, operation, maintenance, and troubleshooting of your Piecemaster Bobcat 300 Hotspot Helium Miner. Please read this guide thoroughly before operating the device to ensure proper functionality and longevity.

## PACKAGE CONTENTS

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Verify that all items listed below are present in your package:

- Bobcat 300 Hotspot Helium Miner
- Antenna
- Power Adapter
- Ethernet Cable
- Mounting Screws (optional)



**Figure 1:** Contents of the Bobcat 300 package, including the miner unit, antenna, power adapter, and mounting hardware.

## PRODUCT OVERVIEW

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The Bobcat 300 is a Helium Hotspot Miner designed to provide wireless network coverage for IoT devices and earn Helium (HNT) cryptocurrency. It operates on the US 915 frequency band.



Figure 2: Top view of the Bobcat 300 Hotspot Miner, featuring the 'BOBCAT' logo.

## Device Ports and Indicators

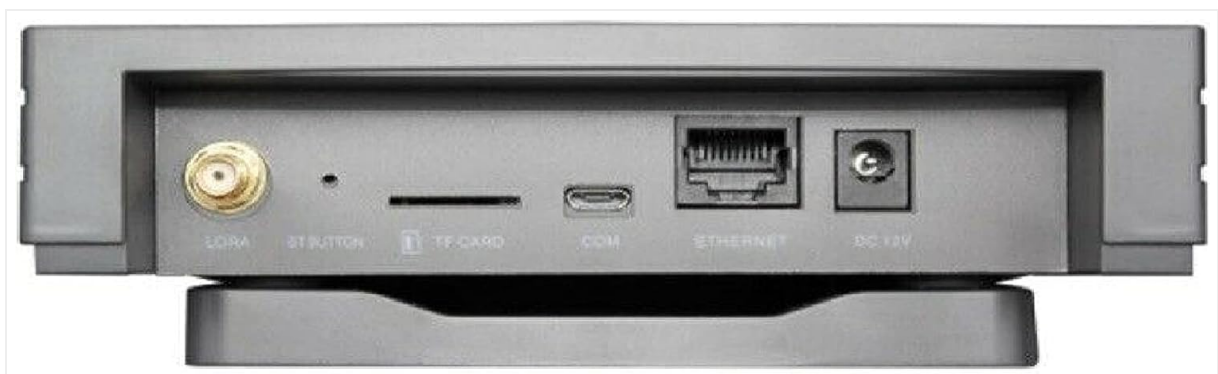


Figure 3: Rear panel of the Bobcat 300, displaying various ports and connectors.

- **LoRa Antenna Connector:** For connecting the external LoRa antenna.
- **BT Button:** Bluetooth pairing button.
- **TF Card Slot:** For a MicroSD card (typically pre-installed).
- **COM Port:** USB-C port for debugging or advanced configuration.
- **Ethernet Port:** For wired network connection.

- **DC 12V:** Power input port.

## SETUP

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### 1. Physical Placement

Place the Bobcat 300 in a location with good ventilation and away from direct sunlight or heat sources. For optimal performance, position the antenna as high as possible and with minimal obstructions.

### 2. Antenna Connection

1. Carefully screw the provided antenna onto the **LoRa Antenna Connector** on the rear of the device. Ensure it is finger-tight.

### 3. Network Connection

The Bobcat 300 supports both Wi-Fi and Ethernet connectivity.

- **Ethernet (Recommended):** Connect one end of the Ethernet cable to the **Ethernet Port** on the miner and the other end to your router or network switch.
- **Wi-Fi:** If using Wi-Fi, the connection will be configured during the initial setup via the mobile application.

### 4. Power Connection

1. Connect the power adapter to the **DC 12V** port on the miner.
2. Plug the power adapter into a suitable electrical outlet. The device will power on automatically.

### 5. Initial Configuration (Helium App)

To onboard and configure your miner, you will need the official Helium mobile application (available for Android and iPhone).

1. Download and install the Helium Wallet app from your device's app store.
2. Open the app and follow the on-screen instructions to create a new Helium wallet or import an existing one.
3. Select the option to **Add a Hotspot** and choose **Bobcat** from the list of manufacturers.
4. The app will guide you through connecting to the miner via Bluetooth (press the **BT Button** if prompted) and configuring its network settings (Wi-Fi or confirming Ethernet).
5. Complete the onboarding process, which may require a small amount of Data Credits (DC) to register the hotspot on the Helium network.

## OPERATING

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Once successfully onboarded, your Bobcat 300 will begin to synchronize with the Helium blockchain. This process can take several hours to a few days. During synchronization, the miner will not actively participate in network activities or earn rewards.

- **Status Monitoring:** Use the Helium mobile app to monitor your hotspot's status, synchronization progress, and earnings.
- **Network Activity:** The miner will automatically begin to witness other hotspots and transfer data packets for IoT devices once fully synchronized.

## MAINTENANCE

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- **Cleaning:** Periodically clean the exterior of the device with a soft, dry cloth. Do not use liquid cleaners or solvents.
- **Firmware Updates:** The Bobcat 300 typically receives automatic firmware updates. Ensure your device remains connected to the internet to receive these updates, which are crucial for performance and security.
- **Environmental Conditions:** Maintain the device within its recommended operating temperature and humidity ranges to prevent damage.

## TROUBLESHOOTING

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If you encounter issues with your Bobcat 300, refer to the following common troubleshooting steps:

- **Miner Not Online/Relayed Status:**
  - Ensure your internet connection is stable.
  - Verify that the Ethernet cable is securely connected, or Wi-Fi settings are correct in the Helium app.
  - Check your router settings to ensure that port 44158 (TCP) is forwarded to your miner's IP address. Consult your router's manual or ISP for port forwarding instructions.
  - Restart the miner by unplugging and replugging the power adapter.
- **Slow Synchronization:**
  - Synchronization can take a significant amount of time (24-48 hours or more). Ensure a stable internet connection during this period.
  - Check the Helium app for the current sync status.
- **No Earnings:**
  - Confirm the miner is fully synchronized and not in a 'Relayed' state.
  - Ensure the antenna is properly connected and positioned for optimal signal.
  - Check the Helium network status for any widespread issues.
- **App Connectivity Issues:**
  - Ensure Bluetooth is enabled on your mobile device.
  - Try restarting the Helium app or your mobile device.
  - Press the **BT Button** on the miner to re-enable Bluetooth pairing mode.

## SPECIFICATIONS

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Feature	Detail
Brand	Piecemaster
Model Name	Bobcat 300
Product Dimensions	5.55 x 5.55 x 1.85 inches
Item Weight	1.61 pounds
Connectivity Technology	Wi-Fi, Ethernet
Wireless Communication Standard	802.11g

Feature	Detail
Frequency Band Class	Single-Band (US 915)
Compatible Devices	Android, iPhone
Antenna Type	Fixed
Color	Black

## WARRANTY INFORMATION

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The Piecemaster Bobcat 300 Hotspot Helium Miner is covered by a manufacturer's warranty. Specific terms and conditions of the warranty may vary. Please refer to the warranty card included with your product or visit the official Piecemaster website for detailed information regarding warranty coverage and claims.

## SUPPORT

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For further assistance, technical support, or inquiries not covered in this manual, please contact Piecemaster customer support. You may find contact information on the official Piecemaster website or through your point of purchase.