



# BITMAIN T17e AntMiner Server Installation Guide

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# BITMAIN



T17e Server Installation  
Guide

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## T17e AntMiner Server

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## Overview

The T17e server is Bitmain's newest version in the 17e server series. Power supply APW9+ is part of T17e server. All T17e servers are tested and configured prior to shipping to ensure easy set up.



**Front View**



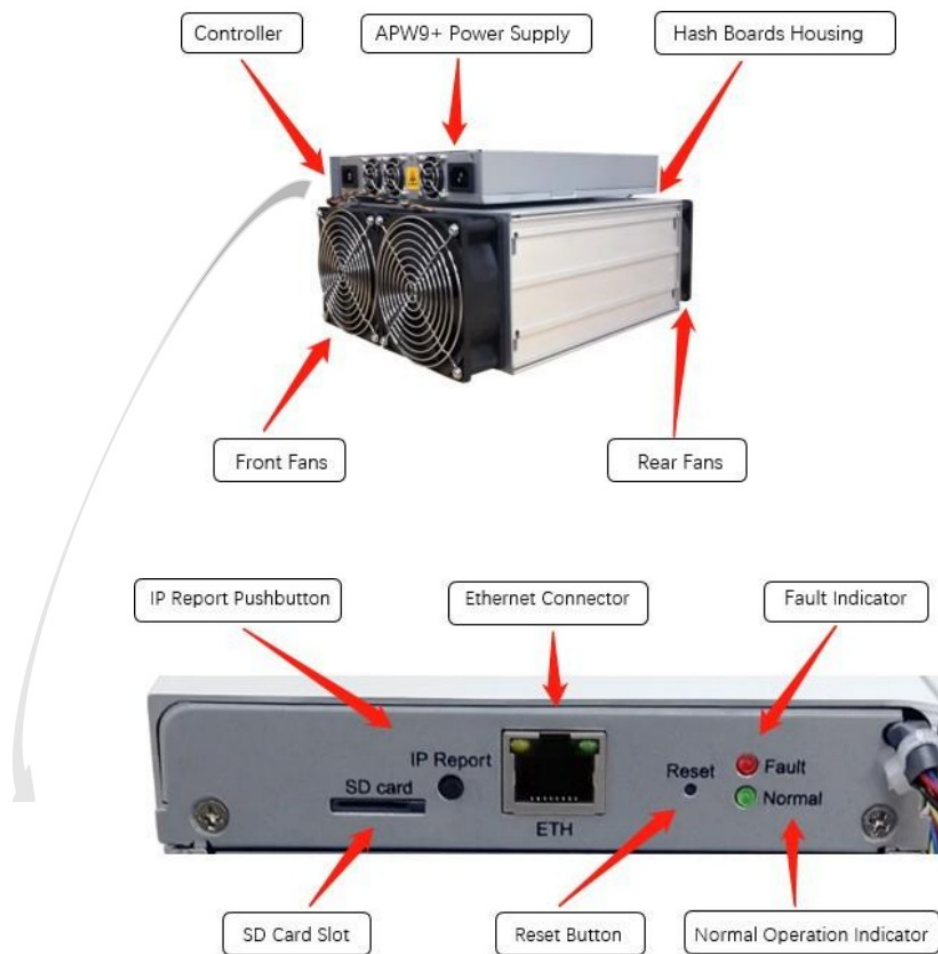
**Back View**

### **Caution:**

1. The equipment must be connected to an earthed mains socket-outlet. The socket-outlet shall be installed near the equipment and shall be easily accessible.
2. The equipment has two power inputs, only by connecting those two power supply sockets simultaneously can the equipment run. When the equipment is powered off, be sure to power off all power inputs.
3. Please refer to the layout above to place your goods in usage in case of any damage.
4. DO NOT remove any screws and cables tied on the product.
5. DO NOT PRESS the metal button on the cover.

## 1.1 T17e Server Components


The main components and controller front panel of T17e servers are shown in the following figure:



### APW9+ Power Supply:



### Note:

1.  Power supply APW9+ is part of T17e server. For detailed parameters, please refer to the specifications below.
2. Additional two power cords are needed.

## 1.2 Specifications

Model No.: 266-Aa

Version: T17e

| Product Glance                                 | Value          |
|--|----------------|
| Crypto Algorithm/Coins                         | SHA256/BTC/BCH |
| Hashrate, TH/s                                 | 50.00          |
| Reference power on wall, Watt                  | 2750           |
| Reference power efficiency on wall @25°C, J/TH | 55.00          |

| Detailed Characteristics                                | Value                 |       |       |
|---|-----------------------|-------|-------|
|   | Min                   | Typ   | Max   |
| Hashrate & Power  |                       |       |       |
| Hashrate, TH/s  |                       | 50.00 | 52.95 |
| Power efficiency on wall @25°C, J/TH                    | 55.00                 |       | 60.50 |
| Power efficiency on wall @40°C, J/TH                    | 61.17                 |       | 67.29 |
| Power on wall, Watt (1-1)                               | 2750                  |       | 3563  |
| Power supply AC input voltage, Volt (1-2)               | 200                   | 220   | 240   |
| Power supply AC input current, Amp(1-3)                 |                       | 12.50 | 17.82 |
| Power supply Input AC Frequency Range, Hz               | 47                    | 50    | 63    |
| Hardware Configuration                                  |                       |       |       |
| Quantity of hash chips                                  | 234                   |       |       |
| Quantity of hash boards                                 | 3                     |       |       |
| Networking connection mode                              | RJ45 Ethernet 10/100M |       |       |
| Server Size (Length*Width*Height, w/o package), mm(2-1) | 298.2*178*304.3       |       |       |
| Net weight, kg (2-2)                                    | 9.90                  |       |       |
| Noise, dBA @25°C (2-3)                                  |                       |       | 82    |
| Environment Requirements                                |                       |       |       |
| Recommended operation temperature, °C                   | 5                     | 25    | 35    |
| Max operation temperature, °C                           | 0                     | 25    | 40    |
| Storage temperature, °C                                 | -20                   | 25    | 70    |
| Operation humidity, RH                                  | 10%                   |       | 90%   |

**Notes:**

(1-1) Min condition: 25°C, min J/TH, typical hashrate

Max condition: 40°C, max J/TH, max hashrate

(1-2) **Caution:** Wrong input voltage may probably cause server damaged

(1-3) Typ condition: min reference power, typical AC input voltage Max condition: max reference power, min AC input voltage

(2-1) Including PSU size

(2-2) Including PSU weight

(2-3) Max condition: Fan is under max RPM(rotation per minute)

Model No.: 266-Aa

Version: T17e

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## Setting Up the Server

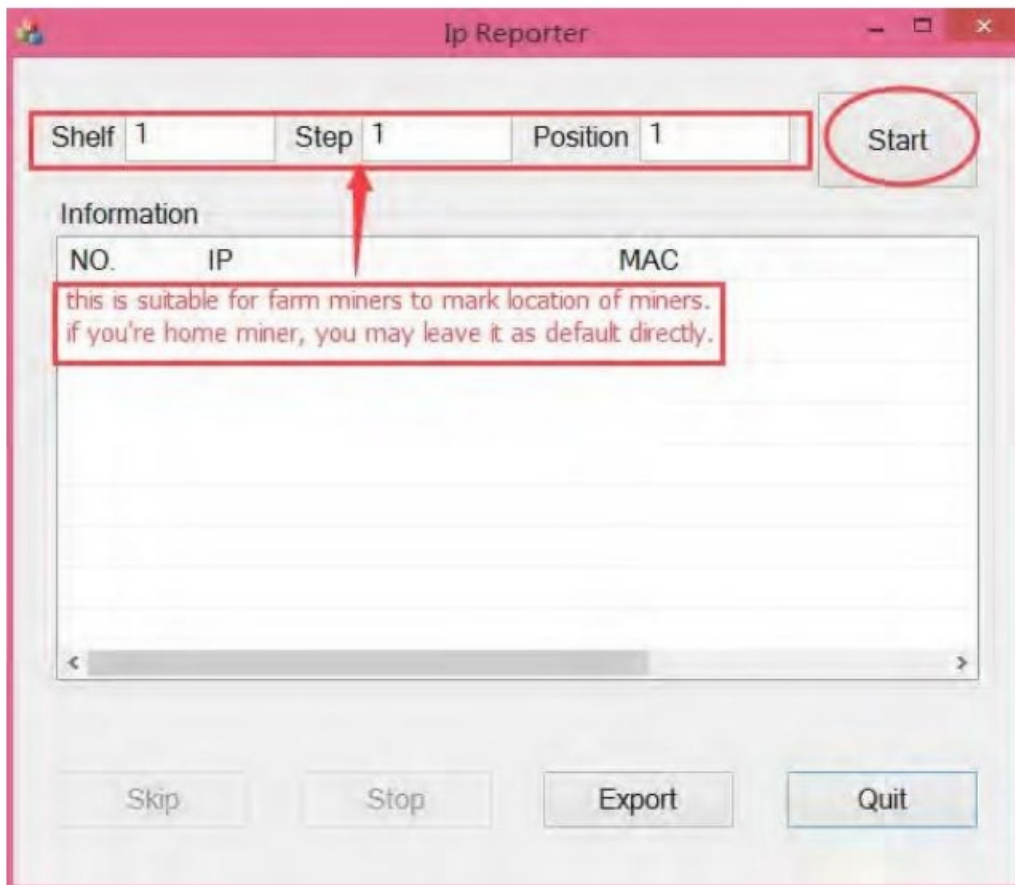
To set up the server:

 The file IPReporter.zip is supported by Microsoft Windows only.

1. Go to the following site: <https://shop.bitmain.com/support/download>
2. Choose 'Others' and download the following file: IPReporter.zip.
3. Extract the file.

 The default DHCP network protocol distributes IP addresses automatically.

4. Right-click IPReporter.exe and run it as Administrator.
5. Select one of the following options:
  - Shelf, Step, Position – suitable for farm servers to mark the location of the servers.
  - Default – suitable for home servers.
6. Click Start.



7. On the controller board, click the IP Report button. Hold it down until it beeps (about 5 seconds).



The IP address will be displayed in a window on your computer screen.



8. In your web browser, enter the IP address provided.
9. Proceed to login using root for both the username and password.
10. In the Network section, you can assign a DHCP IP address (optional).
11. Click Save & Apply.


## Configuring the Server

### Setting Up the Pool

To configure the server:

1. click General Settings.

2. Set the options according to the following table:

| Option   | Description   |
|----------|---|
| Pool URL | Enter the URL of your desired pool.<br> The S9 SE server can be set up with three mining pools , with decreasing priority from the first pool (pool 1) to the third pool (pool 3). The pools with low priority will only be used if all higher priority pools are offline. |
| Worker   | Your worker ID on the selected pool.  |
| Password | The password for your selected worker.  |

3. Click Save & Apply to save and restart the server.

## Monitoring Your server

To check the operating status of your server:



1. Click the status marked below.

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System

Miner Configuration

Miner Status

Network

Miner Status

Summary

|         |          |           |             |           |         |           |           |
|---------|----------|-----------|-------------|-----------|---------|-----------|-----------|
| Elapsed | GH/S(RT) | GH/S(avg) | FoundBlocks | LocalWork | Utility | WU        | BestShare |
| 1m34s   | 53:57.08 | 53734.2   | 0           | 51        | 17.87   | 773682.55 | 1131.066  |

Pools

| Pool  | URL                                       | User         | Status | Diff  | GetWorks | Priority | Accepted | Diff1# | Diff2#  | Diff3# | Rejected | Discarded | Stale | LSDiff | LSTime        |
|-------|---|--------------|--------|-------|----------|----------|----------|--------|---------|--------|----------|-----------|-------|--------|---------------|
| 0     | stratum+tcp://stratum.antomineer.com:3333 | antomineer_1 | Alive  | 65.5K | 3        | 0        | 26       | 0      | 1212415 | 0      | 0        | 0         | 48    | 0      | 65536 0:00:01 |
| 1     | stratum+tcp://stratum.antomineer.com:443  | antomineer_1 | Alive  |       | 1        | 1        | 0        | 0      | 0       | 0      | 0        | 0         | 0     | 0      | 0             |
| 2     | stratum+tcp://stratum.antomineer.com:23   | antomineer_1 | Alive  |       | 1        | 2        | 0        | 0      | 0       | 0      | 0        | 0         | 0     | 0      | 0             |
| total |   |              |        |       | 5        | 3        | 26       | 0      | 1212415 | 0      | 0        | 0         | 48    | 0      |               |
| HW    | 0.0000%                                   |              |        |       |          |          |          |        |         |        |          |           |       |        |               |

AntMiner

| Chain# | ASIC# | Frequency | GH/S(RT) | HW | Temp(PCB)   | Temp(Chip)  | ASIC status   |  |  |  |  |  |  |  |  |  |
|--------|-------|-----------|----------|----|-------------|-------------|---|--|--|--|--|--|--|--|--|--|
| 1      | 78    | 600       | 18694.98 | 0  | 35-49-35-50 | 35-61-55-53 | 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 |  |  |  |  |  |  |  |  |  |
| 2      | 78    | 600       | 17196.77 | 0  | 37-49-39-54 | 38-64-62-59 | 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 |  |  |  |  |  |  |  |  |  |
| 3      | 78    | 600       | 17305.34 | 0  | 36-49-35-52 | 38-61-59-54 | 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 |  |  |  |  |  |  |  |  |  |

Fan#

|               | fan1 | fan2 | fan3 | fan4 |
|---------------|------|------|------|------|
| Speed (r/min) | 6000 | 5890 | 5760 | 5860 |

Note: The T17e server is with automatic frequency. Firmware will stop running when the Temp (PCB) reaches to 80 °C or Temp(chips) reaches to 95 °C there will be an error message “Fatal Error: Temperature is too high!” shown in the bottom of kernel log page.

2. Monitor your server according to the descriptions in the following table:

| Option      | Description  |
|-------------|--|
| ASIC#       | Number of chips detected in the chain.   |
| Frequency   | ASIC frequency setting.  |
| GH/S(RT)    | Hash rate of each hash board (GH/s).   |
| Temp(PCB)   | Temperature of each hash board (°C). (Applied only to server with fixed frequency).  |
| Temp(Chip)  | Temperature of the chips on each hash board (°C).  |
| ASIC status | One of the following statuses will appear: <ul style="list-style-type: none"> <li>● O – indicates OK</li> <li>● X – indicates error</li> <li>● – – indicates dead</li> </ul> |

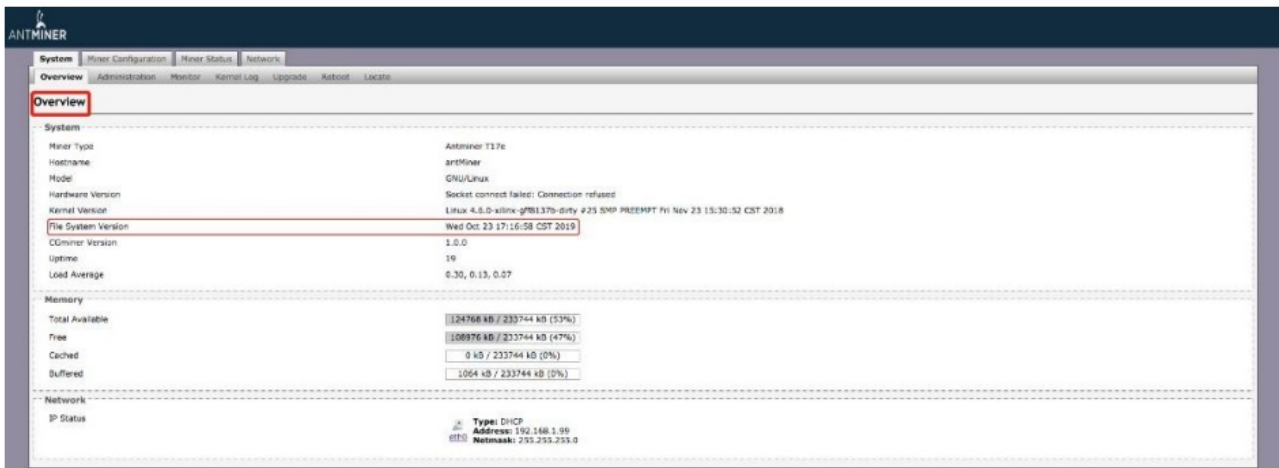
## Administering Your Server

### 5.1 Checking Your Firmware Version

To check your firmware version:

1. In System, click the Overview tab.
2. File System Version displays the date of the firmware your server uses. In the examples below, the servers are respectively using firmware version 20191023.



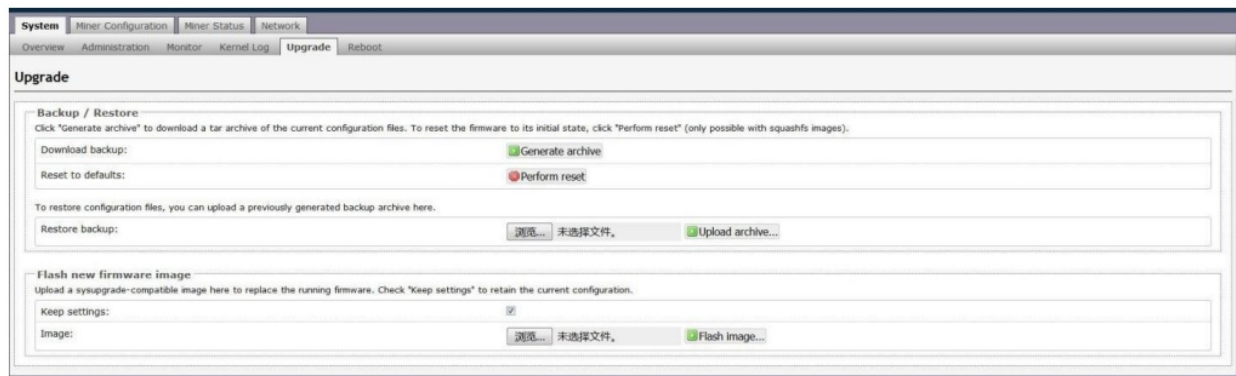


## 5.2 Upgrading Your System

**i** Make sure that the T17e server remains powered during the upgrade process. If power fails before the upgrade is completed, you will need to return it to Bitmain for repair.

**To upgrade the server's firmware:**

1. In System, click Upgrade.



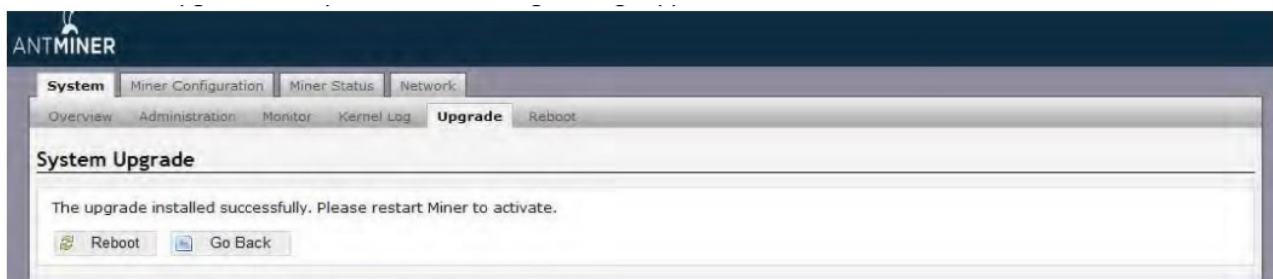
2. For Keep Settings:

- Select the check box to keep your current settings (default).
- Clear the check box to reset the server to default settings.

3. Click the

(Browse) button and navigate to the upgrade file. Select the upgrade file, then click Flash image. A message appears notifying you if the T17e firmware can be upgraded and if yes, will then proceed to flash the image.

4. When the upgrade is completed, the following message appears:



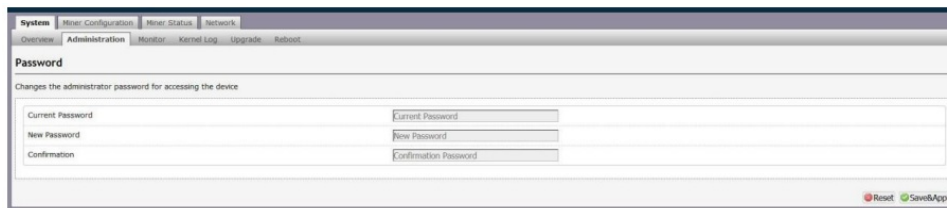
5. Click one of the following options:

- Reboot – to restart the server with the new firmware.
- Go Back – to continue mining with the current firmware. The server will load the new firmware next time when it is restarted.

## 5.3 Modifying Your Password

## To change your login password:

1. In System, click the Administration tab.
2. Set your new password, then click Save & Apply.




The screenshot shows a web interface with a top navigation bar containing tabs: System, Miner Configuration, Miner Status, and Network. Below this is a sub-navigation bar with tabs: Overview, Administration (selected), Monitor, Kernel Log, Upgrade, and Reboot. The main content area is titled 'Password' and contains the text 'Changes the administrator password for accessing the device'. There are three input fields: 'Current Password', 'New Password', and 'Confirmation'. At the bottom right of the form are two buttons: 'Reset' (with a red icon) and 'Save/Apply' (with a green icon).

## 5.4 Restoring Initial Settings

To restore your initial settings

1. Turn on the server and let it run for 5 minutes.
2. On the controller front panel, press and hold the Reset button for 10 seconds.

 Resetting your server will reboot it and restore its default settings. The red LED will automatically flash once every 15 seconds if the reset is operated successfully.

## Environmental Requirements

Please run your server in accordance with the following requirements

1. Basic Environmental Requirements:

### 1.1. Climatic Conditions:

| Description           | Requirement               |
|-----------------------|---------------------------|
| Operating Temperature | 0-40°C                    |
| Operating Humidity    | 10-90%RH (non-condensing) |
| Storage Temperature   | -20-70°C                  |
| Storage Humidity      | 5-95%RH non-condensing    |
| Altitude              | <2000m                    |

### 1.2. Site Requirements of the Server Running Room:

Please keep the server running room away from industrial pollution sources:

For heavy pollution sources such as smelters and coal mines, the distance should be more than 5km.

For moderate pollution sources such as chemical industries, rubber and electroplating industries, the distance should be more than 3.7km.

For light pollution sources such as food factories and leather processing factories, the distance should be more than 2km.

If unavoidable, the site should be chosen in the perennial upwind direction of the pollution source.

Please do not set your location within 3.7km from the seaside or the salt lake. If unavoidable, it should be built as airtight as possible, equipped with air conditioning for cooling.

### 1.3. Electromagnetic Environmental Conditions:

Please keep your site away from transformers, high-voltage cables, transmission lines and high-current equipment, for example, there should be no high-power AC transformers (>10KA) within 20 meters, and no high-voltage power lines within 50 meters. Please keep your site away from high-power radio transmitters, for example,

there should be no high-power radio transmitters (>1500W) within 100 meters.

## 2. Other Environmental Requirements

The server running room shall be free of explosive, conductive, magnetically conductive and corrosive dust. The requirements of mechanical active substances are shown below:

### 2.1 Requirements of Mechanical Active Substances

| Mechanical Active Substance | Requirement 3                   |
|-----------------------------|---------------------------------|
| Sand                        | $\leq 30\text{mg/m}$            |
| Dust (suspended)            | $\leq 0.2\text{mg/m}^3$         |
| Dust (deposited)            | $\leq 1.5\text{mg/m}^2\text{h}$ |

### 2.2 Requirements of Corrosive Gas

| Corrosive Gas    | Unit | Concentration |
|------------------|------|---------------|
| H <sub>2</sub> S | ppb  | < 3           |
| SO <sub>2</sub>  | ppb  | < 10          |
| Cl <sub>2</sub>  | ppb  | < 1           |
| NO <sub>2</sub>  | ppb  | < 50          |
| HF               | ppb  | < 1           |
| NH <sub>3</sub>  | ppb  | < 500         |
| O <sub>3</sub>   | ppb  | < 2           |

**Note:** ppb (part per billion) refers to the unit of concentration 1ppb stands for the volume ratio of part per billion.

## Regulations:

### FCC Notice (FOR FCC CERTIFIED MODELS):

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### Note:




This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.


**EU WEEE: Disposal of Waste Equipment by Users in Private Household in the European Union** This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



## Documents / Resources

|   |  |
|---|--|
|  | <a href="#">BITMAIN T17e AntMiner Server</a> [pdf] Installation Guide<br>T17e AntMiner Server, T17e, AntMiner Server, Server |
|---|--|

## References

-  [BITMAIN](#)
-  [BITMAIN](#)
- [User Manual](#)

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