# T17e Server Installation Guide

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# 1. 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.



#### **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.

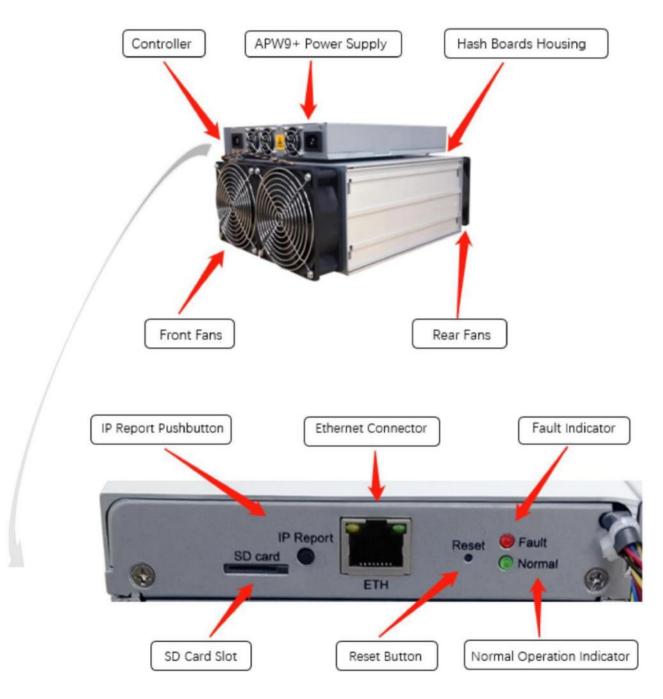
3. Please refer to the layout above to place your goods in usage in case of any damage.

4. DO NOT remove any screws and cables tied on the product.

5. DO NOT PRESS the metal button on the cover.



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



# **APW9+ Power Supply:**



#### Note:

Power supply APW9+ is part of T17e server. For detailed parameters, please refer to the specifications below.
 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, <b>TH/s</b>	50.00
Reference power on wall, <b>Watt</b>	2750
Reference power efficiency on wall @25°C, J/TH	55.00

Detailed Characteristics		Value	
Detailed Characteristics	Min	Тур	Max
Hashrate & Power			
Hashrate, <b>TH/s</b>		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, <b>Watt (1-1)</b>	2750		3563
Power supply AC input voltage, <b>Volt (1-2)</b>	200	220	240
Power supply AC input current, <b>Amp</b> (1-3)		12.50	17.82
Power supply Input AC Frequency Range, <b>Hz</b>	47	50	63
Hardware Configuration			
Quantity of hash chips		234	
Quantity of hash boards		3	
Networking connection mode	R	J45 Ethernet 10/100N	М
Server Size (Length*Width*Height, w/o package), <b>mm</b> <sub>(2-1)</sub>		298.2*178*304.3	
Net weight, <b>kg</b> <sub>(2-2)</sub>		9.90	
Noise, <b>dBA</b> @25°C <sub>(2-3)</sub>		82	
Environment Requirements			
Recommended operation temperature,° <b>C</b>	5	25	35
Max operation temperature, °C	0	25	40

Storage temperature,°C	-20	25	70
Operation humidity, <b>RH</b>	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

Product Glance	Value
Crypto Algorithm/Coins	SHA256/BTC/BCH
Hashrate, <b>TH/s</b>	53.00
Reference power on wall, <b>Watt</b>	2915
Reference power efficiency on wall @25°C, J/TH	55.00

Detailed Characteristics		Value					
Detailed Characteristics	Min	Тур	Max				
Hashrate & Power	•						
Hashrate, <b>TH/s</b>		53.00	55.95				
Power efficiency on wall @25°C, J/TH	55.00		60.50				
Power efficiency on wall @40°C, J/TH	61.60		67.76				
Power on wall, Watt (1-1)	2915		3791				
Power supply AC input voltage, Volt (1-2)	200	220	240				
Power supply AC input current, <b>Amp</b> <sub>(1-3)</sub>		13.25	18.96				
Power supply Input AC Frequency Range, <b>Hz</b>	47	50	63				
Hardware Configuration			•				
Quantity of hash chips	234						
Quantity of hash boards		3					
Networking connection mode	R	J45 Ethernet 10/100	M				
Server Size (Length*Width*Height, w/o package), <b>mm</b> <sub>(2-1)</sub>		298.2*178*304.3					
Net weight, <b>kg</b> (2-2)		9.90					
Noise, <b>dBA</b> @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, <b>RH</b>	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)

# 2. 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.htm?pid=00720160906053730999PVD2K0vz0693

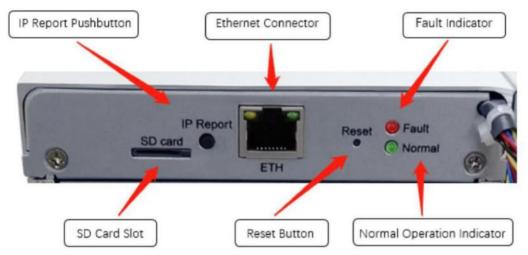
- 2. Download the following file: IPReporter.zip.
- 3. Extract the file.



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.

Shelf 1	Step 1	1	Position	1		Start
Information	T				-	
NO. IF	1			AC		
this is suitable if you're home						
in you're norne	rinner, you n	idy iddve i	as default t	an early.		
			_			
<						>
<						>



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.

		Confirmation		×
	IP 100.70	0.123		
	MAC 6C:EC:E	B:62:39:F2		
PO	SITION 1-1			
	ОК	Skip	Stop	

- 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.

System Hiner Configuration Miner Status Network		
Settings Displosts		
Network Settings		
Network setup for Miner		
Status	MAC-Address(04/7312):67:78:17 IP1:92.168.1.01 etb0	
Hostname	avitMiner	
Protocol	DHCP	
IP Address		
Netmask		
Gateway		
ONS Servers		
		Reset SavebApply

# **3.** Configuring the Server

# **Setting Up the Pool**

## To configure the server:

#### 1. click General Settings.

ttem Miner Configuration Hiner Status Network		
er General Configuration		
Pool 1		
UR;	stratum vitro //rstratum.antioool.com/3833	
Worker	protectioner.3	
Password	F23	
Peol 2		
UR.	stratum+tcp://stratum.ankuool.com;443	
Worker	proviner 1	
Password	F23	
Pool 3		
UR.	stratum Hopy/stratum antooxil.com 25	
Workin	potroiner,1	
Password	[23	

#### 2. Set the options according to the following table:

Option	Description
Pool URL	Enter the URL of your desired pool. The T17e servers 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.

# 4. Monitoring Your server

#### To check the operating status of your server:

1. Click the status marked below.

vatern Hone	Contractor	Miner Status	Million Co.																		
Could Street	CONTRACTOR OF			_															_		
ner Status																					
Summary																					
Elap	Elapsed GH/S(RT)		GH/S(RT)		GH/S(ave	(avg) Foundblocks				LocalW	lork.		zility		WU .	BestShare					
Lm34e		53197.08			53734.2			11010010	0		51 17.87 773083.55		17.87 773082.55			11311060	1				
Poels																					
Pool	URL						User	Status	Diff	GetWorks	Priority	Accepted	DIWLE	DIFTAR	DIFTER	DiffSa	Rejected	Discarded	State	LSDIFF	LSTie
		+tes //stratum artip			trong 1	Alexa						1212416						655.00	0.001		
i			1001.00m;443		denimer 1	Alive		1	1	0	8	0	0	ě	ő		ě.	0			
2		n+ top:///stratum.ants			tminer 1	Abust		1	2	0	0		0		0	0	0	0			
Rotal.								5	3	28	0	1212416	0	.0	0	48	0				
1000		0										0.0000%6									
Chain#	ASIC#	Frequency	GH/S(RT)	HW	Temp(PC	:8)	Temp(Cl	tip)					AS	IC status							
1	78	600	18094.98	0	35-49-35	50	58-41-55		000000 000000 000002 000000 000000 000000						000000						
2	78	600	17196.77	0	37-49-39		59-04-62									000000 000000 00					
3	78	600	17905.34	Q	36-49-36	-52	58-61-55	-64		00060	0 200000 0035	05 100000 525	1090 660505	9966866 333366	a papage socooo	000900 006008 00	10000				
Fai			fent					fam2					Ene				fan4				
Speed (	(mim)		6000					5990				5	763				5860				

Note: The T17e server is with automatic frequency. Firmware will stop running when the Temp (PCB) reaches to  $80^{\circ}$ C or Temp(chips) reaches to  $95^{\circ}$ 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)	ash 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:				
	• <b>O</b> - indicates OK				
	• X - indicates error				
	• indicates dead				

# 5. 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.

NTMINER	
System Miner Configuration Miner Status Network	
Overview Administration Monitor Kernel Log Laws	de Arbeit Laces
Overview	
System	
Minut Type	Actmany 117s
Hospharte	actioner
Model	dNUUmax
Hardware Version	Social convect failed: Convection Infesce
Karnal Vanior	Linux 4.5.0-x0ex g#81376-0x9 425 0MP 2400MPT Pri Nex 23 15:30-32 KST 2018
The System Version	Web Doi: 23.17116-08-057-2019
CGmmer Version	1.0.0
Liptuwe	19
Load Average	6.30, 6.13, 6.07
Memory	
Total Available	[24706.40/233744.40(53%)
Tree	0.009795.40.7.200754.45.(47%)
Cached	0 k0 / 233744 k8 (0%)
Duffered	1044 kB / 233744 kB (3%)
IP Status	20 Type: Dr(27 27) Madrews 192 1081 100 2720 Methanaka 235 235 0

# 5.2 Upgrading Your System

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**.

Nes. To reset the firmware to its initial state, click "Perform reset" (or	tly possible with squashfs images).		
Generate archive			
© Perform reset			
rchive here.			
<b>浏览</b> 未选择文件。	Upload archive		
heck "Keep settings" to retain the current configuration.			
2			
<b>浏览</b> 未选择文件。	Flash Image		
	files. To reset the firmware to its initial state, cick 'Perform reset' (on 译Generate archive @Perform reset rchive here.		

#### 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 **BAXE** (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:

ANTMINER	
System Miner Configuration Miner Status Network	
Overview Administration Monitor Kernel Log Upgrade Reboot	
System Upgrade The upgrade installed successfully. Please restart Miner to activate.	
8 Reboot 📔 Go Back	

- 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.

System         Mner Canfiguration         Here Status         Network           Overview         Administration         Member Kernel Log Upgrade	Rebot	
Password		
Changes the administrator password for accessing the device		
Current Password	Exercised Plassivoord	
New Password	Parm Prossward	
Confirmation	Confirmation Password	
		GReset CSweit Apply

## **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
Sand	<= 30mg/m <sup>3</sup>
Dust (suspended)	<= 0.2mg/m <sup>3</sup>
Dust (deposited)	<=1.5mg/m <sup>2</sup> h

#### 2.2 Requirements of Corrosive Gas

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

凯供力较 T17。



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 handling 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

时 交 明 垂山市 つくく ヘー

disposal service or the shop where your purchased the product.

#### 台湾 ROHS:

	有害物質					
單元	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻 (Cr+6)	多溴聯苯 (PBB)	多溴二苯醚 (PBDE)
外殼	0	0	0	0	0	0
電路板組件		0	0	0	0	0
其他線材	—	0	0	0	0	0
備考1. "超出0.1 wt%"及"超出0.01 wt%"係指限用物質之百分比含量超出百分比含量基準 值。 備考2. "〇"係指該項限用物質之百分比含量未超出百分比含量基準值。 備考3. "一"係指該項限用物質為排除項目。						

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