



# AntRouter R1 Manual

2016.01.01

Bitmain is dedicated to Bitcoin mining decentralization, it is the first product of Bitcoin Internet of Things we launched.

When you first configure your new R1, you should make sure that it's properly linked to your Bitmain ID. This happens automatically if you purchase from Bitmaintech.com, but if you obtain the R1 elsewhere, you will need to link your account manually.



## Front Panel

### Reset Button

A five second long press will reset the R1 to its default settings.

### Bitcoin Mining Indicator LED

Lights up when powering up, blinks when mining.

### WiFi Indicator LED

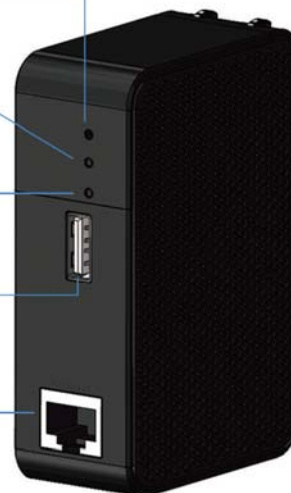
Lights up when wifi is ready, blinks when data is transmitting by wireless LAN.

### USB Port

Can act as a phone charger, or you can connect a USB miner (U3 only).

### WAN/LAN port

Links to your local area network to serve as a WiFi access point, or to a broadband access provider (as a PPPoE router).



## Technical Specifications

Input Voltage	100V-220V
Input Current	0.2A
WiFi Standard	802.11b/g/n
WiFi Band	2.4G
WiFi Transmission Rate	150M
USB Charge Voltage	5.0V
USB Charge Current	Max to 2A
Dimensions	84.5 x 56.5 x 29mm
Bitcoin Mining Mode	AntPool solo mode (forced)
Bitcoin Hashrate	5.5G
Surface Temperature	40°C about (in a 25°C environment)



### Bitcoin Solo Miner

## Functions

AntRouter R1 was designed to mine in AntPool's solo mode. If you find a block, you'll receive around 25 bitcoins. To get this huge reward, you'll need to keep your R1 online and working correctly, and you'll need some good fortune. Good luck!

After linking the R1 to your Bitmain ID, the device can mine continuously as long as it has power and an internet connection. You will be notified by email when you find a block.

Please log into [www.antpool.com](http://www.antpool.com) to check your linking with Bitmain ID. If you have linked your device correctly, you will see "AntRouter" under "Miners" on the navbar. To link it, you need to power on the R1, and find the wifi access point named "antRouter" in the wireless access list on your computer. Connect to it and open the management page in your browser with the URL "r1.bm". The default login credentials are username "root" and password "root". On the management page, click "Miner" on the navbar, input your Bitmain user ID (your registered e-mail), then click "Save & Apply" to save.

If you don't yet have a Bitmain ID, you'll need to register one first.

Mining with the R1 will also earn you more "mining score." See details on [www.antpool.com/user/antRouter.htm](http://www.antpool.com/user/antRouter.htm).

Vist [antminer.com](http://antminer.com) and [antpool.com](http://antpool.com) to learn more about bitcoin mining.

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## Mini WiFi Access Point

## Functions

WiFi Access Point device can turn cabled internet access into wireless, and it is the default operation mode of the R1. Connect your R1 to a router, hub, or any RJ45 port with available internet access, and enjoy your own WiFi access point.

If you want to change WiFi password, log into the management system, navigate to Network > WiFi > Interface Configuration > Wireless Security, choose "WPA-PSK / WPA2-PSK Mixed Mode", and set a password (8 or more characters), then save and apply your changes.

If you want to change router password, log into the management system, navigate to System > Administration > Router Password, input new password, save and apply.

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## High Speed USB Charger

Using a USB cable, connect your mobile device to the R1 to charge it. Android phones, iPhones, and tablets are supported.

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## General Wireless Router

## Functions

R1 is also a normal dialing router, it can access the internet via your service provider(ISP) after simple configuration.

### Configuration Method

Connect ethernet cable (which is connected to ISP), and log into the management system. Click Network > Interfaces > WAN on the navbar (as pictured below) to access the WAN settings page.



Change Protocol to PPPoE, then click "Switch protocol", Save and Apply. Enter your ISP-provided username at "PAP/CHAP username", enter password at "PAP/CHAP password", then click "Save & Apply" and enjoy surfing the web after one minute.

Visit [www.antpool.com/user/antRouter.htm](http://www.antpool.com/user/antRouter.htm) to see more tips and suggestions.



## Bitcoin Mining Host

## Functions

Besides mining by itself, R1 is also a mining host that can be connected to several Bitmain U3 miners. Your mining power will be significantly increased when you connect a U3 to the R1.

### How To Use

Connect an AntMiner U3 to the R1's USB port, then configure the U3's pool and worker name in the management system to mine.

The U3 must be connected to the R1 by a USB hub, even when there is only one U3. One R1 can control several U3s.

## Warranty

## After-Sales

R1 has a 1 year limited warranty. Within 15 days of purchasing the product, you are entitled to a replacement for a non-human-induced major failure.

### Voided Warranty

This warranty does not apply:

- to products which were purchased more than 1 year prior,
- to damage caused by liquid contact, fire, earthquake or other external causes,
- to damage caused by accident, abuse, misuse,
- to damage caused by service performed by anyone who is not a representative of Bitmain,
- to cosmetic damage, including but not limited to scratches, dents and broken plastic on ports.

### Contact for After-sale Service

Recipient: Bitmain After-sale Service

Cellphone: 0086 755 2370 5836

Address: Xihaiian Huayuan 2 Qi 1-B121-123, Jingcheng Road, Shajing, Baoan District, Shenzhen City, Guang Dong Province, China

Visit [www.antpool.com/user/antRouter.htm](http://www.antpool.com/user/antRouter.htm) to see more tips and suggestions.

## FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

This device may not cause harmful interference, and

This device must accept any interference received, including interference that may cause undesired operation.

### Warning

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### Note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

## FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.