**Manuals+** — User Manuals Simplified.

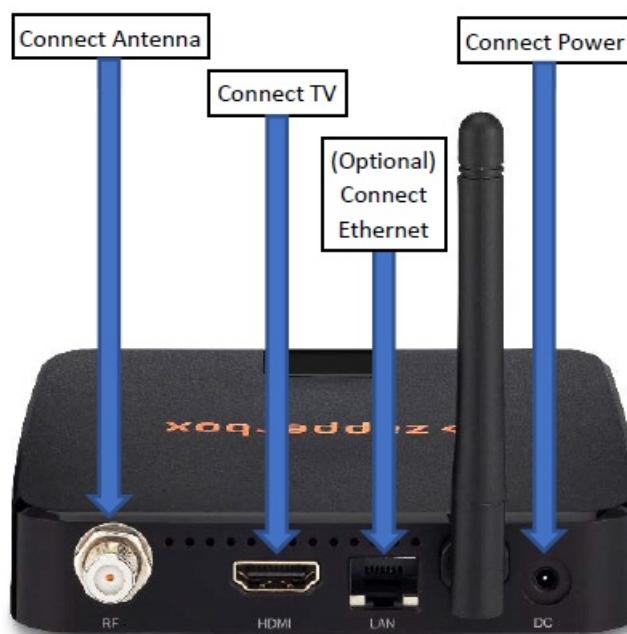# ZapperBox M1 ATSC 3.0 Tuner User Manual

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**ZapperBox M1 ATSC 3.0 Tuner**

## Support

Please send us a message from the support tab on our website if you need support. If you are logged into "My Account", the website will pre-fill your name and email address. Or email us at **support@zapperbox.com**.

## Quick Start – First-Time Setup



1. Connect the antenna cable to the RF input.

2. Connect the TV to the HDMI output.

3. Optional – connect the ZapperBox to the Internet using an Ethernet cable. You can also opt to use Wi-Fi during setup or skip the Internet connection. Internet access is only used for software updates and remote support.

4. Plug the power supply into an electrical outlet and connect the power jack to the rear socket marked DC.

5. You should see a ZapperBox logo on the TV screen. This will be followed by a Dolby Atmos logo and the first-

time setup screens. Follow the instructions on the screen.

6. After the first-time setup is complete your ZapperBox is ready for watching TV.

## Remote Control



### Learning keys

These keys can be programmed to control your TV or AV receiver. Programming instructions:

- Press and hold the black Power Key until the red LED flashes for a while then stays on solid. This means the remote is now in learning mode.

- Press and release one of the three programmable keys (the one you wish to program). The red LED will start blinking.

- With the teaching remote 3-5mm away from and pointed at the learning remote, press and hold the teaching remote button until you see the learning remote red LED blink quickly 3 times indicating the button is now programmed.

- The red LED is still on solid, so you're still in learning mode. You can repeat step 3 for each of the other two learning keys.

- If the programming fails, the red LED blinks quickly 5 times. Try and repeat the programming process.

- When you're done, press any button outside the learning key area to exit the learning state, and the red indicator light will turn off.

**Power Key**
This red power key puts the ZapperBox in Standby Mode. This does not power off the box. In standby mode the HDMI output is turned off. However, the tuners, CPU, Wi-Fi and Ethernet stay on. If you have a single tuner box, it is a good idea to put your box in standby when it is not being used. During this time the box will cycle through all the frequencies and update its guide data. This is not as important with dual-tuner boxes where the second tuner is constantly updating guide data in the background. The Power Key does not reboot the box, for that use the "Restart" option or power cycle the box.

**DVR, Live TV, Record, BA**
Future use keys for DVR functionality and Broadcaster Apps.

**Guide**
Brings up and dismisses the program guide.

**Info**
Brings up info bar with detailed program info and dismisses the info screen.

**Zap**
Brings up the quick access menu while watching TV.

**Menu**
Brings up and cancels the main menu.

**Arrow Keys & OK**
Used for navigating menus. The up and down arrow keys are also used for channel surfing. The left and right keys will be used for fast-forward and rewind controls when DVR functionality is added.

**Reverse arrow key**

**Has three functions:**

- Backspace during channel entry
- Previous channel while watching TV
- Exit while in Wi-Fi setup and Time entry menus

**ZapperBox M1 Set-top box**

**Rearview**

See the rear view of the ZapperBox M1 here. From left to right the various connections are:

**RF**
Antenna input

**HDMI**
HDMI output – requires an HDMI 2.0, or better, rated cable.

**LAN**
Use this Ethernet jack to connect your ZapperBox M1 to the Internet using a wired Ethernet connection.

**Wi-Fi antenna**
External Wi-Fi antenna. The ZapperBox has a second internal antenna too. The dual antennas provide better Wi-Fi performance.

**DC**
Connect the included power supply to this input. The power supply is rated at 5 Volts and 2 Amperes.

**Side view**

See the side view of the ZapperBox M1 here. These three slots will be used to add memory storage to the ZapperBox M1 for future DVR functionality.

**Micro SD**
This slot is used to insert a Micro SD flash memory card. The maximum supported capacity is 256 GB.

**USB (blue color)**
This is a USB 3.0 socket. It can be used to add storage like a hard disk drive.

**USB (grey color)**
This is a USB 2.0 socket. It can be used to add storage like a hard disk drive.

**Using Static IP Addresses with ZapperBox**
If you are using a wired ethernet connection and need to use a static IP address, this can be configured through "Wi-Fi Setup" under the Settings menu. In the Network & Internet menu, navigate to "IP settings" at the bottom of the page, and you can enter a static IP address or choose to use DHCP.

**Connecting to Wi-Fi**
If you are connecting to the Internet via Wi-Fi, do not connect the ZapperBox to the wired Ethernet network. If the Ethernet cable is plugged in when attempting to connect to the Wi-Fi, the ZapperBox will attempt to connect, then display an error that the Wi-Fi network connection attempt failed.

## Remote Access & Privacy

During normal operation the ZapperBox stores diagnostics logs in its memory. These logs are not uploaded to any remote server and kept internal to the ZapperBox's memory. They are continually overwritten with new logs. If we need to diagnose an issue that you report using the "My Account" section of our website, we may ask you to upload the diagnostic logs on your device. This can be done by selecting the "Diagnostics" option under the "Settings" Menu. For further support, we may ask you to enable the "Remote Access" feature, using the settings menu. Whenever one of our support personnel accesses the diagnostic utility on your box using the Internet, a "Remote Access Active" advisory will be shown on the screen.

We do not share or sell any information that gets uploaded to our servers for the purpose of diagnosing support issues. We have not yet come up with a policy for how long to store such information. Historical diagnostics are sometimes useful to debug ongoing issues.

## ZapperBox Software Version Numbers

Several version numbers are listed under the About->Device Info screen. These are:

1. **Release Version:** This is the aggregate release version for all the software on ZapperBox. This version number is changed when any software changes are made. Our published release notes will track this version number.
2. **UI Version:** This version number changes when a change is made only to the user interface.
3. **ATSC3pak Version:** This version number changes when the core ATSC software stack changes.
4. **AOSP Release:** This is a version of the Android Open-Source Platform being used.
5. **OS Date:** This is the date we compiled the Linux OS version.

## Acknowledgments

ZapperBox M1 is based on ATSC3pak software developed by BitRouter. The following are trademarks of Dolby

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## Documents / Resources

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