

APA44-M

Audio Processing Accelerator

U s e r ' s M a n u a l



Read First!



Warning – Safety First!

Please read and follow the instructions of the Registration Form entitling you to technical support and service-under-warranty.

Important safety considerations

1. Read all operating instructions.
2. In case of damage to the APA44-M due to spilled liquids or physical damage from knocks or dropping, repairs should be performed by qualified service personnel only.
3. Attach the supplied rubber feet to the APA44-M unit for desktop use and keep the unit away from rain, moisture, liquids, heat sources or fire.
4. The APA44-M has a ventilation fan at its rear panel. Please be sure not to block it and to allow at least 5cm of space for airflow.
5. Avoid placing the APA44-M where there may be radio or TV interference.
6. Do not allow children to use the APA44-M without adult supervision.
7. Use only the supplied power adapter.
8. Provide an earthing (grounding) connection before the power adapter's mains power cable is connected to the mains.

Package Content

Your new APA44-M package contains:

1. APA44-M Unit
2. External DC Power Adapter
3. 2 Power cables (1 US, 1 Eur)
4. 1 Crossed Ethernet cable (2m)
5. 4 rubber feet
6. CD wallet
7. Registration card
8. This user guide

Mounting the APA44-M unit

For desktop use, attach the four rubber feet to the bottom of the APA44-M before connecting it.

Alternatively, you can mount a single APA44-M or two units in a standard 19" studio rack-mount using the APA44-M Rackmount Adapter Kit (not supplied) which can be obtained through your Waves dealer.

If you intend to use the Rackmount Adapter Kit, do not attach the rubber feet to the APA44-M unit, or detach them if you already have.

1. Introduction

Welcome to the APA44-M manual. Be sure to read the safety considerations on page 1 of this manual before you plug-in and switch on the APA44-M's power.

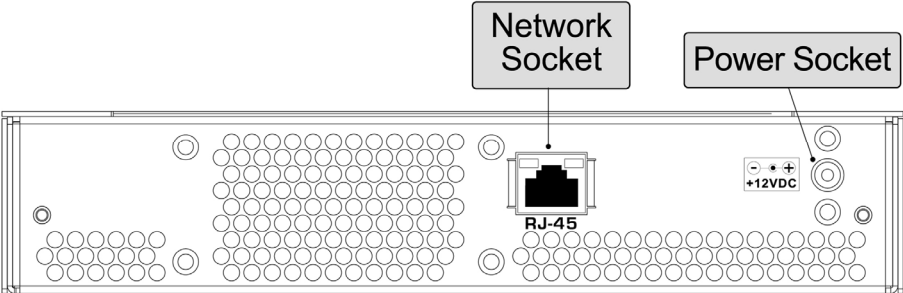
The Waves **A**udio **P**rocessing **A**ccelerator is a hardware platform designed to provide independent processing resources for Waves plug-ins running on a host computer.

This manual focuses on the APA44-M hardware connection and operation aspects. All software aspects are covered in the software manuals supplied via the Waves software installers or through download from the Waves website.

Front Panel View



Rear Panel View



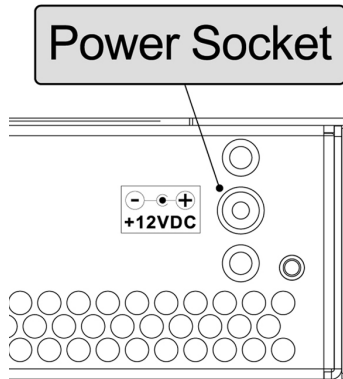
2. Connecting The APA44-M unit

2.1. Mains Power Supply

The DC power cable socket is located on the rear panel of the APA44-M unit.

The supplied external power adapter is auto-switching and supports an input of 100-240V, 50-60Hz. Use only the supplied power adapter.

Plug the power adapter's DC cable into the APA44-M power socket and then plug the supplied AC power cable into the power adapter's AC socket and to your electricity connection.



2.2. Network Connection

The network cable connection is located at the back of the APA44-M.

There are two possible ways to connect the APA44-M unit to your host computer:

1. Direct connection to the host computer's Ethernet socket using the supplied crossed Ethernet cable.
2. If you intend to connect more than one APA44-M unit to your host computer, you will need to connect the APA44-M units to an Ethernet switch* (**not** a hub) and connect the switch to your host computer using standard (non-crossed) Ethernet cables.

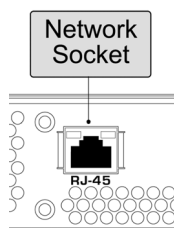
If you connect more than one APA44-M unit to your host computer, the Ethernet card in your host computer needs to be **1Gbit** bandwidth based in order to support the required network communication bandwidth.

Important Note:

It is possible to connect the APA44-M unit(s) to an existing Ethernet switch used to connect your host computer to other network applications.

However, due to bandwidth and other network considerations it is **highly recommended** to separate networks and to connect your APA44-M unit(s) to a dedicated Ethernet card.

Following this recommendation will ensure fulfilling the maximum power and potential of your APA44-M unit(s).



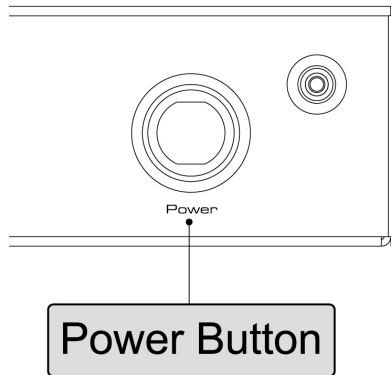
*For switch requirements and specifications please check the Waves website.

3. Operation

Once the APA44-M unit is connected to power and to the network, simply press the power button on the front panel to switch the unit on. The power LED will illuminate to indicate that the unit is operating. The APA44-M is now ready to communicate with your host computer.

To switch the APA44-M unit off, press and hold the power button on the front panel for approximately 4 seconds. The power LED should switch off to indicate that the unit is off.

Before switching the APA44-M off, make sure that the Waves software is not running on it (as explained in the software manual).



4. Troubleshooting

Please verify the following points before trying to use the Waves software on the APA44-M unit:

1. The DC power cable is properly connected to the APA44-M.
2. The AC power cable is properly connected to the power adapter and to the mains. The power adapter's green LED is on.
3. Network connections:
 - a. A **crossed** network cable is connected between the APA44-M and the host computer – in the case of connecting a single APA44-M directly to the host computer.
 - b. A **standard** network cable is connected between the APA44-M and an Ethernet switch. The switch is connected with a **standard** network cable to the host computer – in the case of connecting several APA44-M units to the host computer.
4. The APA44-M is switched on (by pressing the power button at the front) and the power LED is illuminating.

In case it is necessary to restart the APA44-M unit, press and hold the power button for a few seconds to switch the unit off, and then press it again to switch the unit on.

Contact Waves Sales and technical support

Before calling Waves for technical support, please first check the Waves website (<http://www.waves.com>) for technical support issues and the latest information.

Contacting the tech-support or the sales department via our website is preferred, and is more efficient in terms of being able to provide you with complete documentation and solutions.

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5. Technical Specifications

Dimensions:

Width: 221mm / 8.75 inch

Height: 44.5mm / 1.75 inch

Depth: 188mm / 7.4 inch

Weight: 2kg / 4.4 pounds

Power Adapter:

Input Voltage: 100~240 VAC, Auto Sensing

Frequency: 50~60 Hz

Input Current: 1.2 A @ 115 VAC, 0.6 A @ 230 VAC

Output Current: 12 VDC, 5 A, 60W

Environmental:

Operating Temperature: 10~40°C

6. Warranty

One Year limited Warranty on APA44-M Hardware (“Product”):

Waves Audio Ltd. (“Waves”) warrants that the Product conforms substantially to the specifications contained in the Product documentation for a period of one (1) year from the date of original purchase from Waves or its authorized resellers. In the case of a valid warranty claim, your sole and exclusive remedy and Waves’s entire liability under any theory of liability will be, at its option, to repair or replace the Product without charge or, if this is not possible, to refund the purchase price to you. For warranty service, please call one of Waves offices listed above, to obtain a Return Authorization (RA) number. After you obtain the RA number, ship the defective Product, transportation and insurance charges prepaid, to the Waves location listed above. Write the RA number in large letters on the outside of the shipping box. Enclose your name, address, telephone number, copy of original sales invoice and a detailed description of the problem. Waves will not accept responsibility for loss or damage in transit.

The Warranty is void if the Product serial numbers have been removed from the Product or if the Product has been damaged by misuse, modification or unauthorized repair, as determined at Waves’ discretion.

The Product is designed and manufactured for use in professional and studio audio systems and is not intended for other usage.

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