

M2TECH M2-JOPLIN

M2TECH JOPLIN 384/24 ADC User Manual

Model: M2-JOPLIN

Brand: M2TECH

INTRODUCTION

The M2TECH JOPLIN 384/24 ADC is a high-performance Analog-to-Digital Converter designed to convert analog audio signals into high-resolution digital audio. It supports sampling rates up to 384kHz and a bit depth of 24-bit, making it suitable for professional audio recording, archiving, and playback systems. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your JOPLIN ADC.

SETUP

1. Unpacking

Carefully remove the M2TECH JOPLIN ADC and its accessories from the packaging. Ensure all components are present:

- M2TECH JOPLIN 384/24 ADC unit
- External power supply
- USB cable
- Remote control

2. Placement

Place the JOPLIN ADC on a stable, flat surface, away from direct sunlight, heat sources, and excessive moisture. Ensure adequate ventilation around the unit.

3. Connections

Before making any connections, ensure the JOPLIN ADC and all connected devices are powered off.



Figure 1: Rear panel of the M2TECH JOPLIN 384/24 ADC, illustrating the various input and output connections. From left to right, you can see the Right In and Left In analog inputs (RCA), AES/EBU Out, S/PDIF Out, Toslink Out, USB 2.0 port, and DC 15V power input.

- Analog Input:** Connect your analog audio source (e.g., turntable preamplifier, tape deck, mixer) to the 'RIGHT IN' and 'LEFT IN' RCA jacks on the rear panel. Ensure correct channel orientation.

2. **Digital Output:** Connect the JOPLIN ADC to your digital audio receiver, DAC, or computer's digital input using one of the following outputs:
 - **AES/EBU Out:** For professional balanced digital audio connections.
 - **S/PDIF Out:** For coaxial digital audio connections.
 - **Toslink Out:** For optical digital audio connections.
3. **USB Connection:** Connect the JOPLIN ADC to your computer using the provided USB cable. The USB 2.0 port allows for high-speed data transfer for digital audio.
4. **Power Connection:** Connect the external 15V DC power supply to the 'DC IN 15VDC' port on the rear panel. Plug the power supply into a suitable AC outlet.

OPERATING INSTRUCTIONS

1. Powering On/Off

After all connections are made, power on your audio source and receiving device. Then, connect the JOPLIN ADC's power supply to an AC outlet. The unit will power on automatically. To power off, simply disconnect the power supply.



Figure 2: Front panel of the M2TECH JOPLIN 384/24 ADC, showing the illuminated digital display indicating a sample rate of 192kHz. The display provides real-time feedback on the current operational status.

2. Front Panel Controls and Display

The front panel features a digital display that shows the current sampling rate of the converted audio signal (e.g., 192 for 192kHz). There is also a small button and a larger knob, likely for input selection or menu navigation.



Figure 3: The M2TECH remote control, featuring buttons for power, menu/escape, navigation (up, down, left, right, OK), and potentially other functions for controlling the JOPLIN ADC.

3. Remote Control Functions

The included remote control provides convenient access to the JOPLIN ADC's functions. Use the directional buttons and 'OK' to navigate menus and select options. The 'MENU/ESC' button allows you to access the unit's settings or exit current menus. The power button on the remote can be used to toggle the unit's standby mode.

MAINTENANCE

Cleaning

To maintain the appearance and performance of your JOPLIN ADC, follow these cleaning guidelines:

- Always disconnect the power supply before cleaning.
- Use a soft, dry, lint-free cloth to wipe the exterior surfaces.
- For stubborn marks, slightly dampen the cloth with water. Do not use harsh chemicals, abrasive cleaners, or solvents, as these can damage the finish.
- Avoid spraying liquids directly onto the unit.

General Care

- Do not block the ventilation openings.
- Protect the unit from extreme temperatures and humidity.
- Avoid dropping or subjecting the unit to strong impacts.

TROUBLESHOOTING

If you encounter issues with your M2TECH JOPLIN ADC, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power/Unit does not turn on	Power cable not connected; Power outlet faulty; Power supply damaged.	Ensure power supply is securely connected to the unit and a working outlet. Test the outlet with another device. Contact support if power supply is suspected to be faulty.
No audio output	Incorrect input/output connection; Wrong input selected on receiving device; Source device not playing audio.	Verify all analog and digital audio cables are correctly connected. Ensure the correct input is selected on your amplifier or DAC. Confirm the audio source is active and playing.
Distorted or noisy audio	Poor cable connection; Interference; Source signal too strong/weak.	Check all cable connections for looseness or damage. Ensure cables are not running parallel to power cords. Adjust the output level of your analog source if possible.
Display not showing correct sample rate	Source signal issue; Unit malfunction.	Verify the analog source is providing a stable signal. Try restarting the JOPLIN ADC by disconnecting and reconnecting power.

If the problem persists after trying these solutions, please contact M2TECH customer support or your authorized dealer.

SPECIFICATIONS

Feature	Detail
Model	M2-JOPLIN
Brand	M2TECH
Analog-to-Digital Conversion	Up to 384kHz / 24-bit
Connectivity Technology	USB
Analog Inputs	RCA (Right In, Left In)

Feature	Detail
Digital Outputs	AES/EBU, S/PDIF (Coaxial), Toslink (Optical)
Number of Channels	32 (as per product data, typically stereo for audio)
Power Input	DC 15V
Compatible Devices	Camera (as per product data, typically audio equipment)
UPC	043774028566
ASIN	B00DI8YQDI

WARRANTY AND SUPPORT

Warranty information for the M2TECH JOPLIN 384/24 ADC is typically provided at the point of purchase or can be found on the official M2TECH website. Please retain your proof of purchase for warranty claims. Information regarding spare parts availability and guaranteed software updates is not available in the provided product data. For the most current information on support, drivers, firmware updates, and service, please visit the official M2TECH website or contact your authorized dealer.