NUPRiME

The NuPrime MCX-800AD is a high-performance immersive audio processor featuring four DAC chips and eight-channel amplification, designed for superior multi-channel music and home theater decoding. The MCX-800AD individually decodes each digital channel, delivering higher precision, lower noise, enhanced dynamics, and exceptional detail.

MCX-800AD

USER'S MANUAL

NUPRiME

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FCC Notice - Declaration of Conformity Information

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 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.

WARNING: Only peripherals complying with the FCC class B limits may be attached to this equipment.
Changes or modifications made to this equipment, not expressly approved by us or parties authorized by us could void the user's authority to operate the equipment. 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.

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EU Declaration of Conformity

Hereby, NuPrime Audio, Inc. declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EC.

The manufacturer of this product is NuPrime Audio, Inc., 30 N Gould St. Ste N, Sheridan, WY 82801, USA.

The Authorized Representative for EMC and product safety is NuPrime Audio, Inc., 30 N Gould St. Ste N, Sheridan, WY 82801,

For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

For Customers in Europe

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

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Safety Instructions

There are two categories of Safety Instructions included in this manual:
- Product Warnings, (i.e., what must never be done to assure avoiding those hazards that
- could cause bodily injury or property damage); and
- User Directions (i.e., what must always be done to assure the safe use of your device).

The Safety Instructions contained in this manual have been categorized in accordance with the seriousness of the potential hazards through the use of Signal Words. Those Signal Words, and their intended meanings, are as follows:

DANGER: Indicates that a failure to observe the Safety Instructions could result in death or catastrophic bodily injury.

WARNING: Indicates that a failure to observe the Safety Instructions could result in serious bodily injury.

CAUTION: Indicates that a failure to observe the Safety Instructions could result in minor bodily injury or property damage.

NOTE: Designates important information that relates to activities and/or conditions that might result in loss of data and/or damage to your device.

Safe Use and Operation of Your Device

This equipment emits stray RF energy and will interfere with the reception of signals by airborne electronic navigational devices or medical devices. Do not operate this equipment near any sensitive medical devices.

WARNING: Use only grounded AC power cords.

Always immediately disconnect the power to the equipment in the event the device emits an unusual odor or sound or generates smoke.

WARNING: Never attempt to disassemble, repair or make any modification to your device. Disassembly, modification or any attempt at repair could cause bodily injury or property damage, as well as damage to the device itself.

WARNING: Your device is not a toy. Never allow children to play with your device. Misuse, rough or improper handling of your device by children could result in serious bodily injury for any of the enumerated safety warnings in this manual. In addition, always keep all accessories and components out of the reach of small children as small parts might present a choking hazard. Seek immediate medical attention if choking occurs or if any small part has been swallowed.

CAUTION: Never raise the sound volume level too high when using your device with earphones. An excessive sound volume level could cause damage to your hearing.

WARNING: To reduce the risk of re or electric shock, do not expose the unit to moisture or water.

Do not allow foreign objects to get into the enclosure. If the unit is exposed to moisture, or a foreign object gets into the enclosure, immediately disconnect the power cord from the wall.
Take the unit to a qualified service person for inspection and necessary repairs.
Read all the instructions before connecting or operating the component.
Keep this manual so you can refer to these safety instructions.
Heed all warnings and safety information in these instructions and on the product itself. Follow all operating instructions.
Do not use this unit near water.
You must allow a minimum 10 cm or 4 inches of unobstructed clearance around the unit.
Do not place the unit on a bed, sofa, rug, or similar surface that could block the ventilation openings. If the unit is placed in a bookcase or cabinet, there must be ventilation of the cabinet to allow proper cooling.

Keep the component away from radiators, heat registers, stoves, or any other appliance that produces heat.

The unit must be connected to a power supply only of the type and voltage speci ed on the rear panel. Connect the component to the power outlet only with the supplied power supply cable or an exact equivalent. Do not modify the supplied cable.

Do not route the power cord where it will be crushed, pinched, bent, exposed to heat, or damaged in any way. Pay particular attention to the power cord at the plug and where the cord exits the back of the unit.

The power cord should be unplugged from the wall outlet during a lightning storm or if the unit is to be left unused for a long period of time.

Immediately stop using the component and have it inspected and/or serviced by a quali ed service agency if:
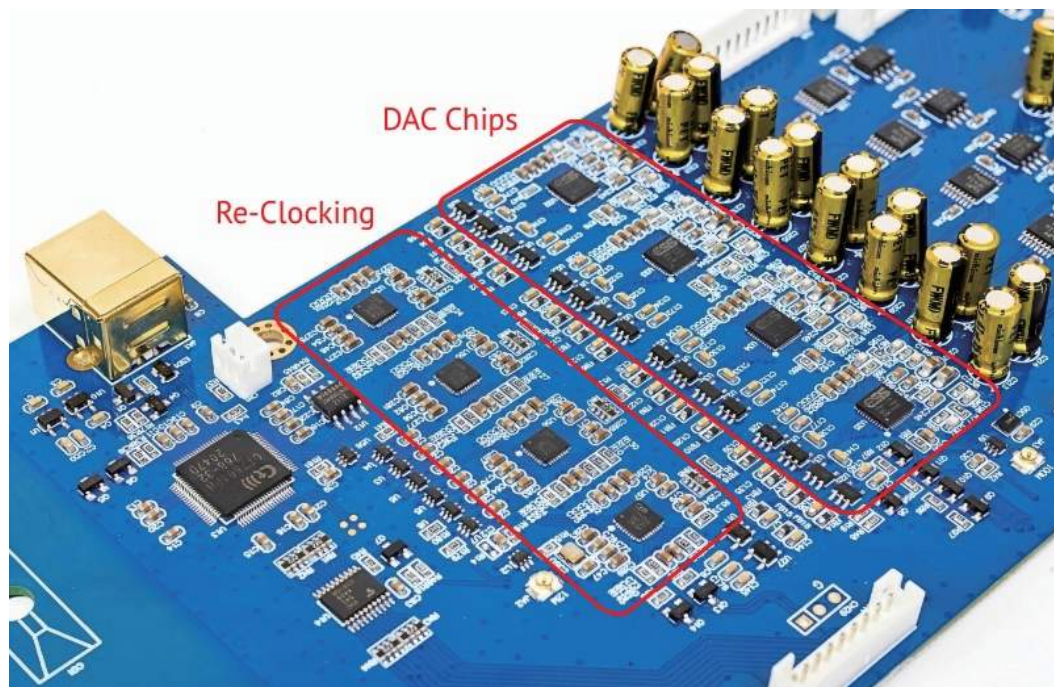
- The power supply cord or plug has been damaged.
- Objects have fallen or liquid has been spilled into the unit.
- The unit has been exposed to rain.
- The unit shows signs of improper operation.
- The unit has been dropped or damaged in any way

Description

The NuPrime MCX-800AD is a high-performance immersive audio processor featuring four DAC chips and eight-channel amplification, designed for superior multi-channel music and home theater decoding. Unlike traditional AV receivers that rely on DSP and a single multi-channel DAC to process HDMI signals, the MCX-800AD individually decodes each digital channel, delivering higher precision, lower noise, and enhanced dynamics. This advanced architecture preserves exceptional detail, providing an immersive experience for music, movies, and gaming.
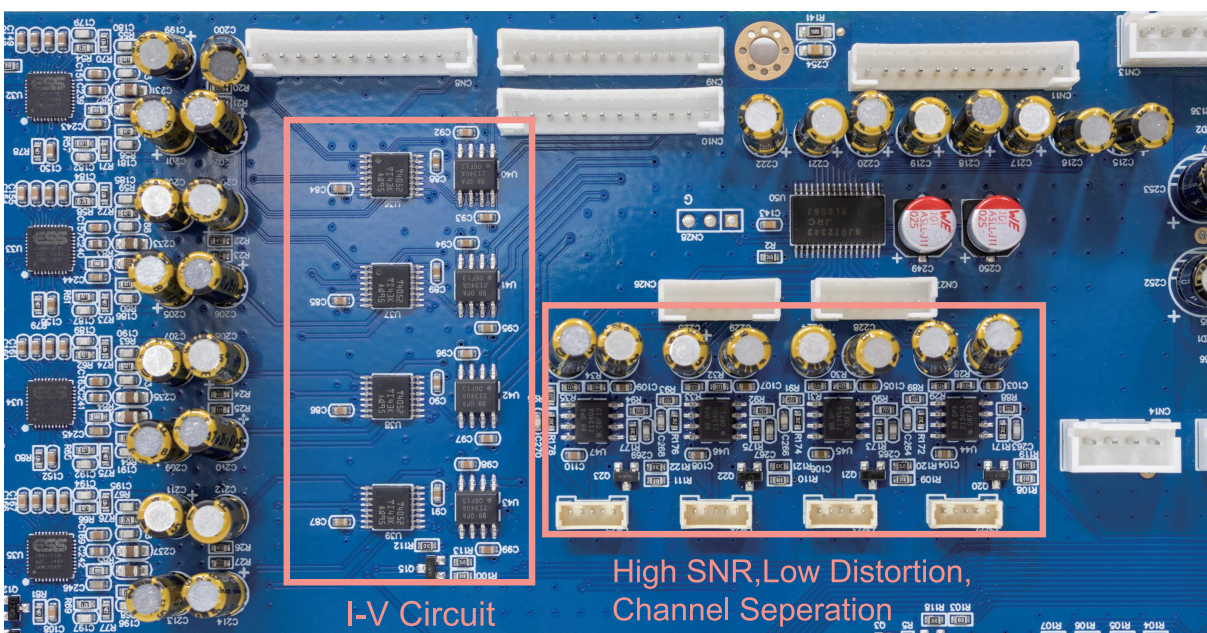
Multi-Channel DAC Architecture

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The NuPrime MCX-800AD features a sophisticated multi-channel DAC architecture designed for superior audio performance in immersive music and home theater applications. Unlike conventional AV receivers that rely on DSP processing and a single multi-channel DAC chip to decode HDMI signals, the MCX-800AD employs a more advanced approach.
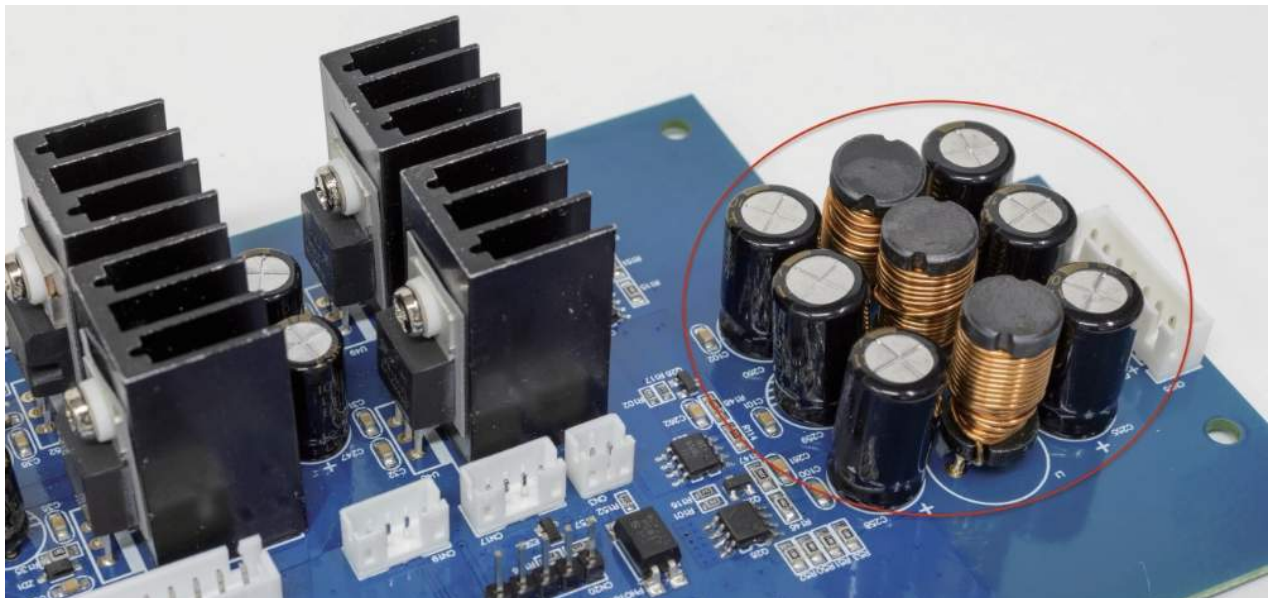
In this design, eight digital audio channels are first re-clocked to ensure precise time alignment before being individually decoded by four high-performance DAC chips. By assigning multiple DACs to handle separate channels, this architecture minimizes crosstalk and reduces noise, resulting in improved channel separation, lower distortion, and enhanced dynamic range.

The DAC outputs of the NuPrime MCX-800AD pass through a high-end I-V conversion circuit with a dedicated power supply, ensuring superior audio performance. This circuit preserves the original signal with minimal distortion, maintaining clarity, dynamic range, and low noise. By optimizing the I-V stage, the MCX-800AD enhances low-level detail retrieval and microdynamics, delivering a more immersive and natural listening experience.

Following the I-V stage, four OP2134 op-amps further refine the signal, providing low distortion, excellent channel separation, and a high signal-to-noise ratio. Their low-noise floor and high slew rate (20V/μs) enable fast transient response, ensuring tight bass, crisp highs, and accurate midrange. By dedicating separate OP2134 op-amps to different channel pairs, crosstalk is minimized, maintaining consistent high-fidelity performance across all channels.

High Performance Power Circuit

A CLC filter is a passive circuit using two capacitors and an inductor to reduce noise and ripple in power supplies and signal paths. It works by shunting high-frequency noise to ground (C1), blocking AC components while allowing DC to pass (L), and further smoothing the output (C2). This design provides superior ripple reduction, better efficiency than RC filters, and stable power delivery, making it ideal for high-performance audio amplifiers, DACs, and power supplies.

The NuPrime custom-designed DC converters, NP15N08B and NP05P10-Z, provide separate, optimized power supplies for analog and digital circuits, offering distinct benefits. The NP15N08B delivers +/- 15V at 8W for analog circuits, while the NP05P10-Z provides +5V at 10W for digital circuits. By isolating these power supplies, digital noise and interference are prevented from contaminating the analog signal, helping to preserve the purity and fidelity of the audio output.

This separation also allows each circuit to receive power tailored to its specific needs. Analog circuits benefit from clean, stable DC voltage for accurate signal processing, while digital circuits receive efficient and stable power for high-speed operation. The result is improved overall system performance, with each circuit operating optimally without the negative impact of cross-interference.

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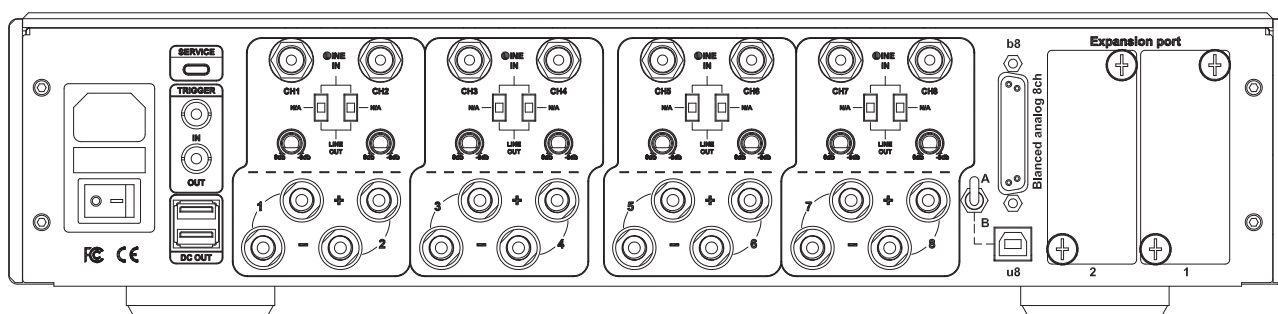## Adaptive Voltage Switching Power Supply Amplifier

The MCX-800AD utilizes Adaptive Voltage Switching Power Supply technology and integrated amplifiers enable each channel to deliver explosive power and ultra-low distortion, with a neutral and detailed sound characteristic. The amplifier's output signal feeds back into the power supply's servo power stage, causing a change in the output voltages supplying the power stage of the amplifier. This design resulted in more details at a low music level and explosive power at a high volume.

Innovative Design, Unparalleled Performance

With its precise signal processing and high-bandwidth design, the MCX-800AD captures the full detail and dynamics of music, movies, and games. This advanced architecture ensures lifelike instrument reproduction, fast transient response, resulting in an exceptionally refined audio experience.

Specification

Back Panel View:

Inputs:

- Switch Line-In position : 8 x RCA analog inputs.
- USB (8 channels), configurable as 'A' or 'B' to support two MCX-800AD units, enabling up to 16-channel decoding from a Windows or Mac PC.
- DB25 port for 8 x XLR analog inputs.
- Optional EXT1 and EXT2 plugin cards

Outputs:

- Switch Line-Out position: 8 x RCA analog outputs.
- Optional EXT1 and EXT2 plugin cards

DACs:

- USB (Stereo): PCM 768kHz/32-bit, Native DSD256
- PCM (8 channels): 192kHz/32-bit
- USB DSD (6 channels): Native DSD128

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Amplifiers:

- Peak Power: 8 x 280W@4ohm, 170W@8ohm
- RMS Power: 8 x 220W@4ohm, 120W@8ohm
- Gain Adjustable: Magnification x 17~x 32 is adjusted through variable resistor
- Signal to Noise Ratio: > 95dB at 1W, 10W, 100W
- THD+N: <0.005%
- Frequency Response: 10Hz to 50kHz

- Trigger In Function:
  - Accepts DC 0V to 15V input.
  - Device is active when the input is floating or between DC 3V and 15V.
  - Device enters standby when the input is below 0.7V.
- Worldwide AC voltage: US Version 100 ~ 120Vac, Europe version 220 ~ 240Vac, AC voltage not switchable
- AC Fuse: Slow-blow, 15A/250V(US Version) , 10A/250V(Europe version)
- Dimension: 430 mm W x 340 mm D x 105 mm H (including feet)
- Weight: 11.5 kg
- Color: Black

For HDMI input processing, install the AoIP or I^2S plugin card and pair it with the NuPrime H Series HDMI decoders.
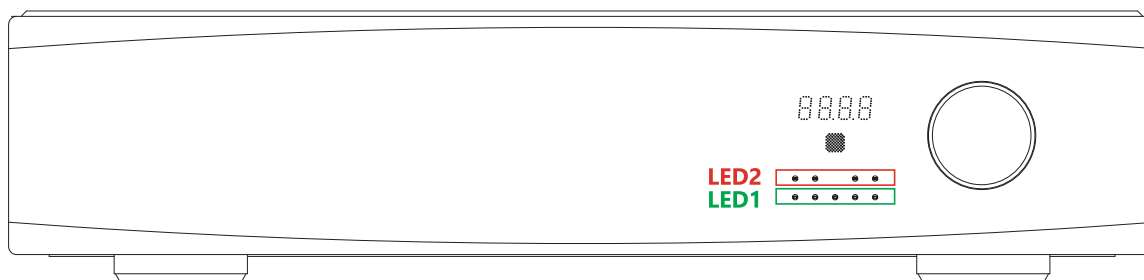
Support Nuprime Fusion-X Plugin Cards
(refer to www.nuprime-x.com for more information):

- AoIP 16-channels Inputs and Outputs (2 x RJ45 ports)
- 8 x AES3 outputs (DB25 port)
- 8 x XLR outputs (DB25 port)
- 16 x I^2S Inputs (DB25 port)

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Quick Start Guide
Front Panel

Power / Input Selector / Volume Control:

- Briefly press for 3 seconds to turn standby mode On/Off.
- Press the knob to switch between inputs.
- Turn the knob clockwise to increase volume.
- Turn the knob counterclockwise to decrease volume.

LED Indicator:

- LED 1 (Power & Standby Status):
  - Orange – Mute
  - Blue – Power On
  - Off – Power supply thermal protection
- LED 2 (Fault Indicator):
  - Yellow – Power amplifier fault
  - Red – Overload protection
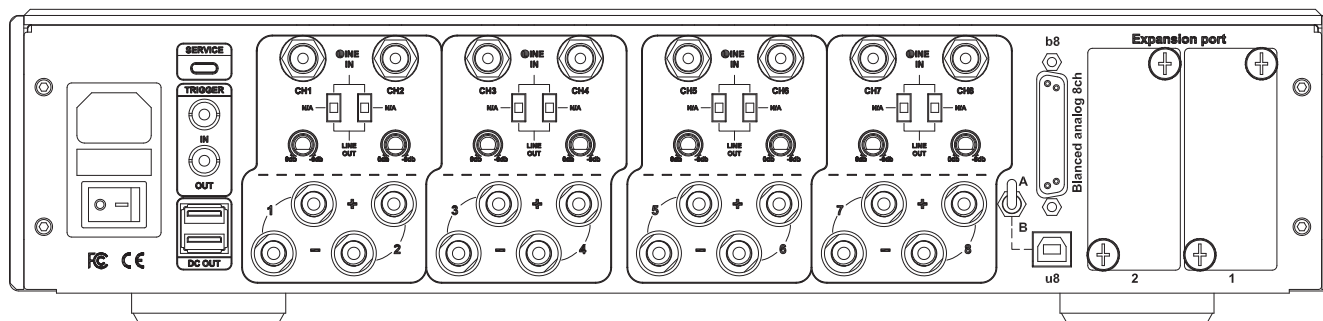
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Display:

- PCM Sample rate: 44.1/48/88.2/96/176.4/192/352.8/384/705.6/768
- DSD Sample rate: d2.8 (64)/d5.6(128)/d11.2 (256)
- Volume display: 00 ~ 99

Inputs Display:

- A8: 8 x RCA analog inputs
- B8: DB25 port for 8 x XLR analog inputs
- U8: USB (8 channels)
- E1: Optional EXT1 plugin cards
- E2: Optional EXT2 plugin cards

Rear Panel

GAIN Control VR

Line-Out:

- If the switch is set to LINE OUT for any channel, the RCA connector will output a line-level signal.
- If the switch is set to Default NA, no signal is present on the RCA connectors.

To configure source inputs (using front panel Input Select):

- A8: 8 x RCA analog inputs, Switch to the LINE IN position.
- B8: DB25 port for 8 x XLR analog inputs.
- U8: USB (8 channels)
- E1: Optional EXT1 plugin cards
- E2: Optional EXT2 plugin cards

Dolby Atmos Speaker Setup Guide

	Rear panel	Audio MIDI	Dolby Atmos Speakers	5.1	7.1	5.1.2	5.1.4	7.1.2	7.1.4	7.1.6	9.1.4	9.1.6
USB System A	1	1	FL	✓	✓	✓	✓	✓	✓	✓	✓	✓
	2	2	FR	✓	✓	✓	✓	✓	✓	✓	✓	✓
	3	3	C	✓	✓	✓	✓	✓	✓	✓	✓	✓
	4	4	LFE	✓	✓	✓	✓	✓	✓	✓	✓	✓
	5	5	SL	✓	✓	✓	✓	✓	✓	✓	✓	✓
	6	6	SR	✓	✓	✓	✓	✓	✓	✓	✓	✓
	7	7	BL		✓			✓	✓	✓	✓	✓
	8	8	BR		✓			✓	✓	✓	✓	✓
USB System B	1	9	WL								✓	✓
	2	10	WR								✓	✓
	3	11	LTF				✓		✓	✓	✓	✓
	4	12	RTF				✓		✓	✓	✓	✓
	5	13	LTM			✓		✓		✓		✓
	6	14	RTM			✓		✓		✓		✓
	7	15	LTR				✓		✓	✓	✓	✓
	8	16	RTR				✓		✓	✓	✓	✓

Note: For LFE output, switch to the LINE OUT position, then connect the RCA interface to the subwoofer using a connecting cable.

Refer to www.nuprime-x.com for HDMI processing.

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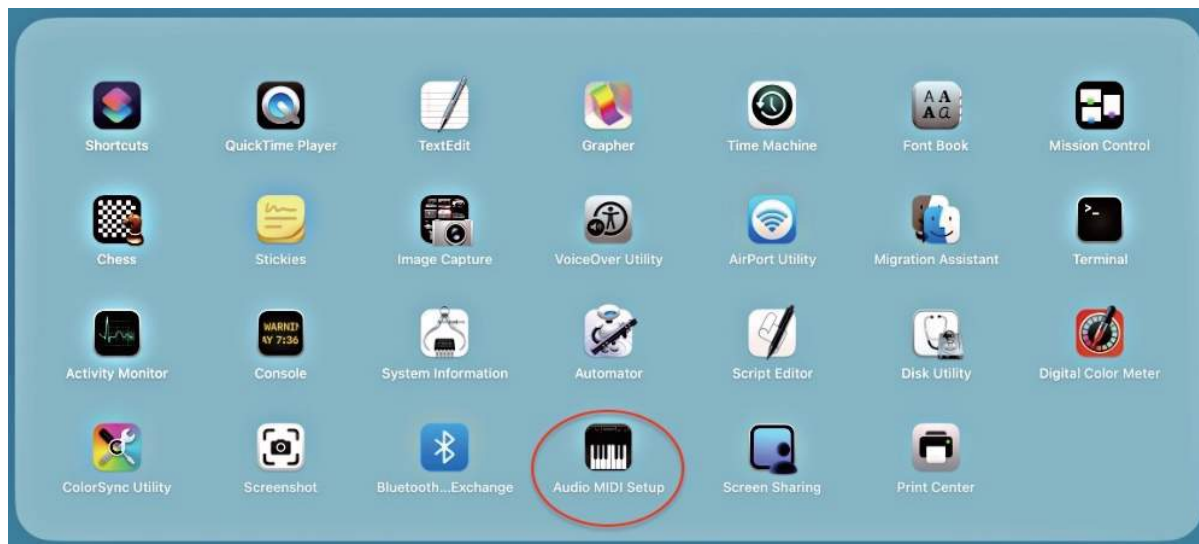# Setting Up a Dolby Atmos System with Nuprime MCX-800AD and Apple Mac Mini

Introduction

The Nuprime MCX-800AD is a versatile 8-channel USB Audio DAC and amplifier, ideal for creating an immersive Dolby Atmos system when connected to an Apple Mac Mini. Using one MCX-800AD is sufficient to decode formats with 8 channels or fewer, such as Dolby 5.1.2, while two units are required for more complex setups exceeding 8 channels, such as Dolby 7.1.4. This guide provides step-by-step instructions for both configurations, enabling you to enjoy movies, games, or Apple Music's spatial audio in Dolby Atmos.

- One MCX-800AD: Handles up to 8 channels (e.g., Dolby 5.1.2).
- Two MCX-800AD units: Supports up to 12 channels (e.g., Dolby 7.1.4).
- With the NuPrime H Series HDMI decoder, one or two MCX-800AD units can be expanded to support Dolby 9.1.6, while also integrating Audio-over-IP (AoIP) for seamless audio distribution

We'll use MacOS's Audio MIDI Setup to configure the audio output as multi-channel PCM, which the MCX-800AD unit(s) will amplify to your speakers.

This guide assumes you have a basic understanding of connecting audio hardware and navigating MacOS. We'll cover hardware setup, audio configuration, application settings, and troubleshooting to ensure a smooth experience.

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Prerequisites

Before you begin, ensure you have the following:

- Apple Mac Mini running the latest MacOS.
- Nuprime MCX-800AD unit(s)
  - One unit for setups with 8 channels or fewer.
  - Two units for setups with more than 8 channels.
- USB cables to connect both MCX-800AD unit(s) to the Mac Mini.
- Speakers arranged for your Dolby Atmos configuration:
  - For one unit (e.g., 5.1.2): 5 base channels, 1 subwoofer, 2 height channels.
  - For two units (e.g., 7.1.4): 7 base channels, 1 subwoofer, 4 height channels.
- Dolby Atmos-compatible content, such as movies, games, or tracks from Apple Music with spatial audio support.

Step 1: Hardware Setup

Option 1: One MCX-800AD (e.g., Dolby 5.1.2)

1. Connect to the Mac Mini:
   - Use a USB cable to connect the MCX-800AD to a USB port on your Mac Mini. It will be detected as an audio device in MacOS.
2. Connect Speakers:
   - Attach speakers to the MCX-800AD's output terminals. For a 5.1.2 setup, connect speakers to the MCX-800AD in the order from Channel 1 to 8 in the order: FL, FR, FC, LFE, SL, SR, TFL, TFR
     - Base: Front Left (FL), Front Right (FR), Center (FC), Surround Left (SL), Surround Right (SR)
     - Subwoofer: Low-frequency effects (LFE)
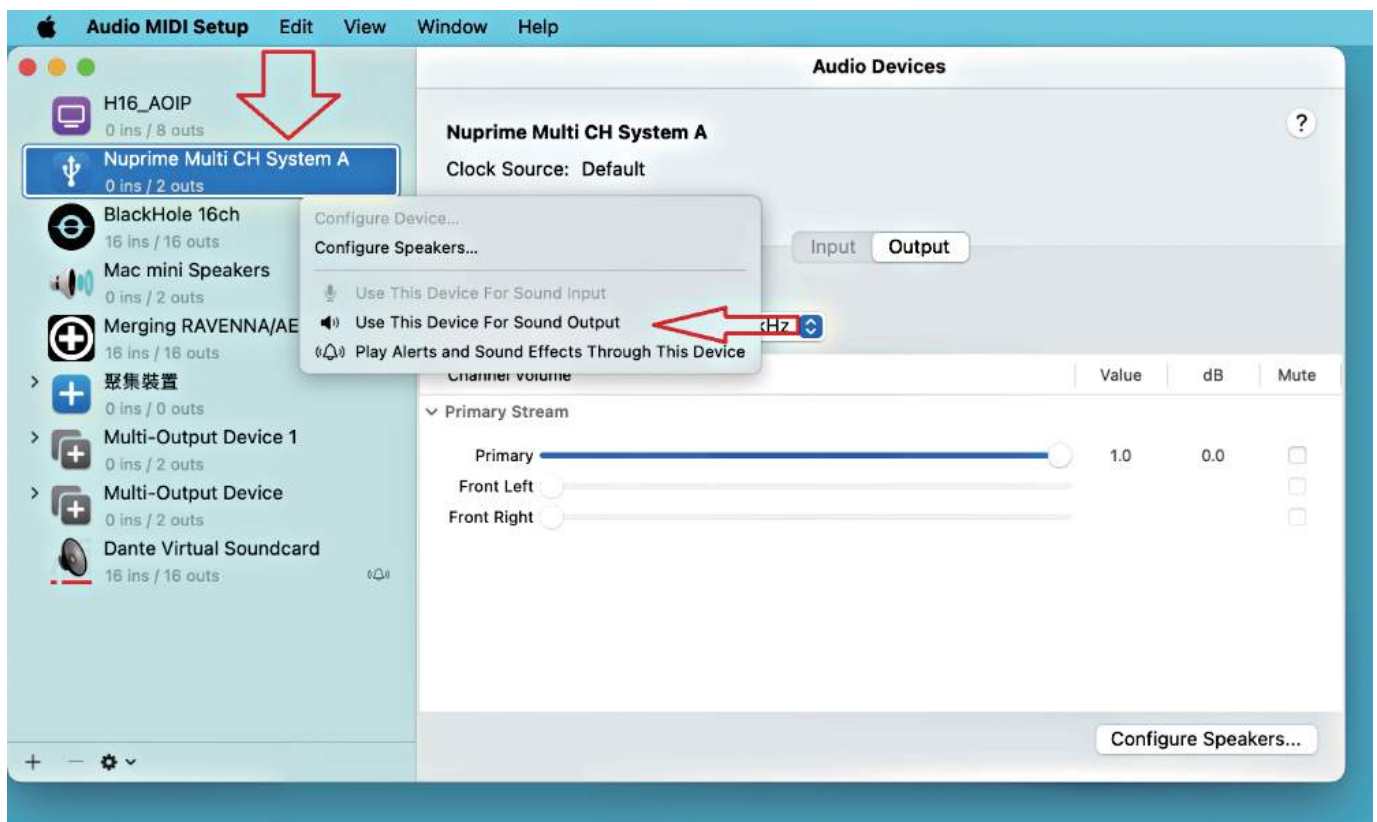   - Height: Front left height (TFL), front right height (TFR)

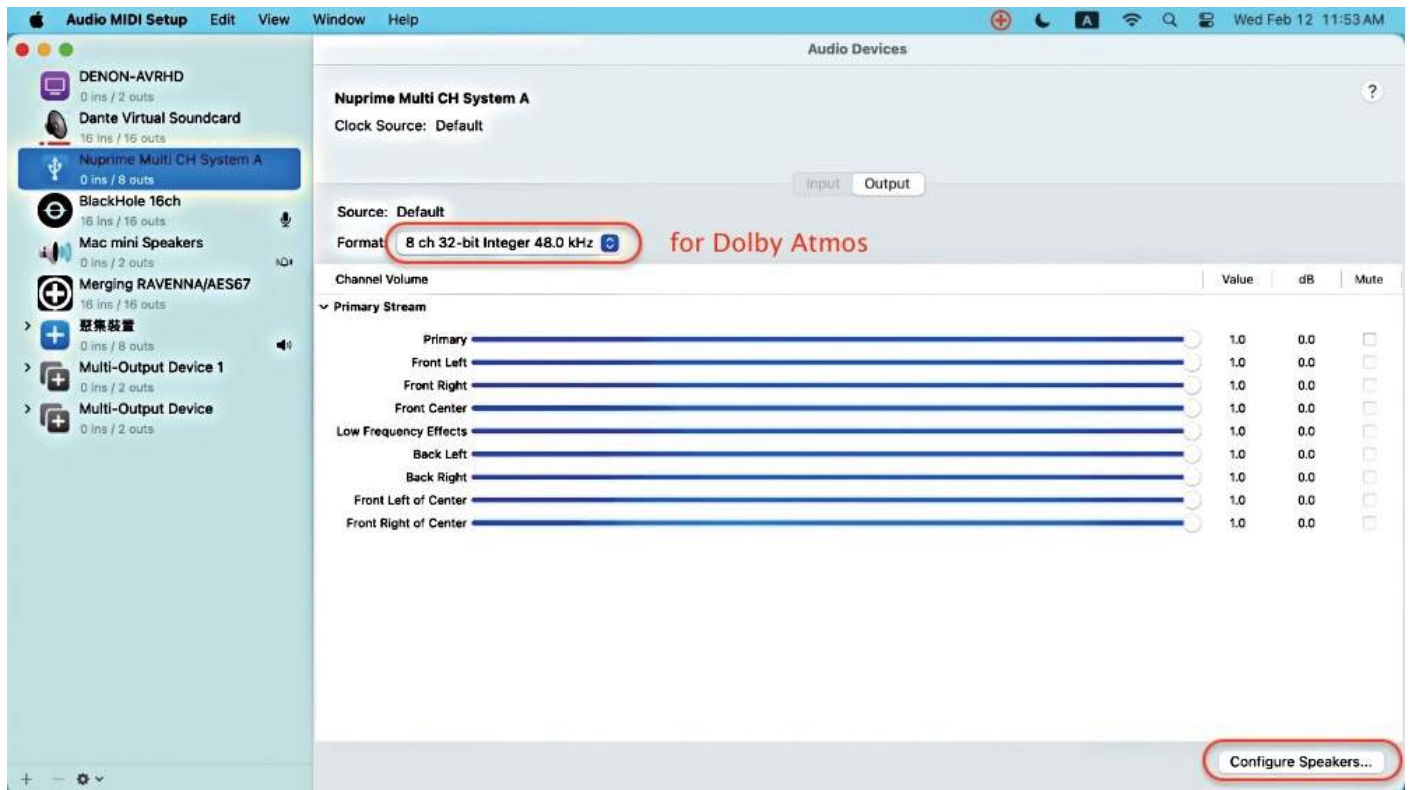### Option 2: Two MCX-800AD Units (e.g., Dolby 7.1.4)

1. Connect the MCX-800AD Units to the Mac Mini:
   - Set the USB switch next to USB Port (U8) on the back panel to "A" for one unit and "B" for the other.
   - Plug one end of a USB cable into each MCX-800AD unit and the other end into separate USB ports on your Mac Mini. Each unit will appear as an individual audio device in MacOS.
2. Connect speakers:
   - Distribute speakers across both units' output terminals.
     - Base: Front Left, Front Right, Center, Surround Left, Surround Right, Surround Back Left, Surround Back Right.
     - Subwoofer: Low-frequency effects (LFE).
     - Height: Top Front Left, Top Front Right, Top Rear Left, Top Rear Right.
   - First unit selected by Audio MIDI has Channel 1 to 8 as FL, FR, FC, LFE, SL, SR, SBL, SBR.
   - Second unit selected by Audio MIDI has Channel 1 to 4 as TFL, TFR, TRL, TRR.

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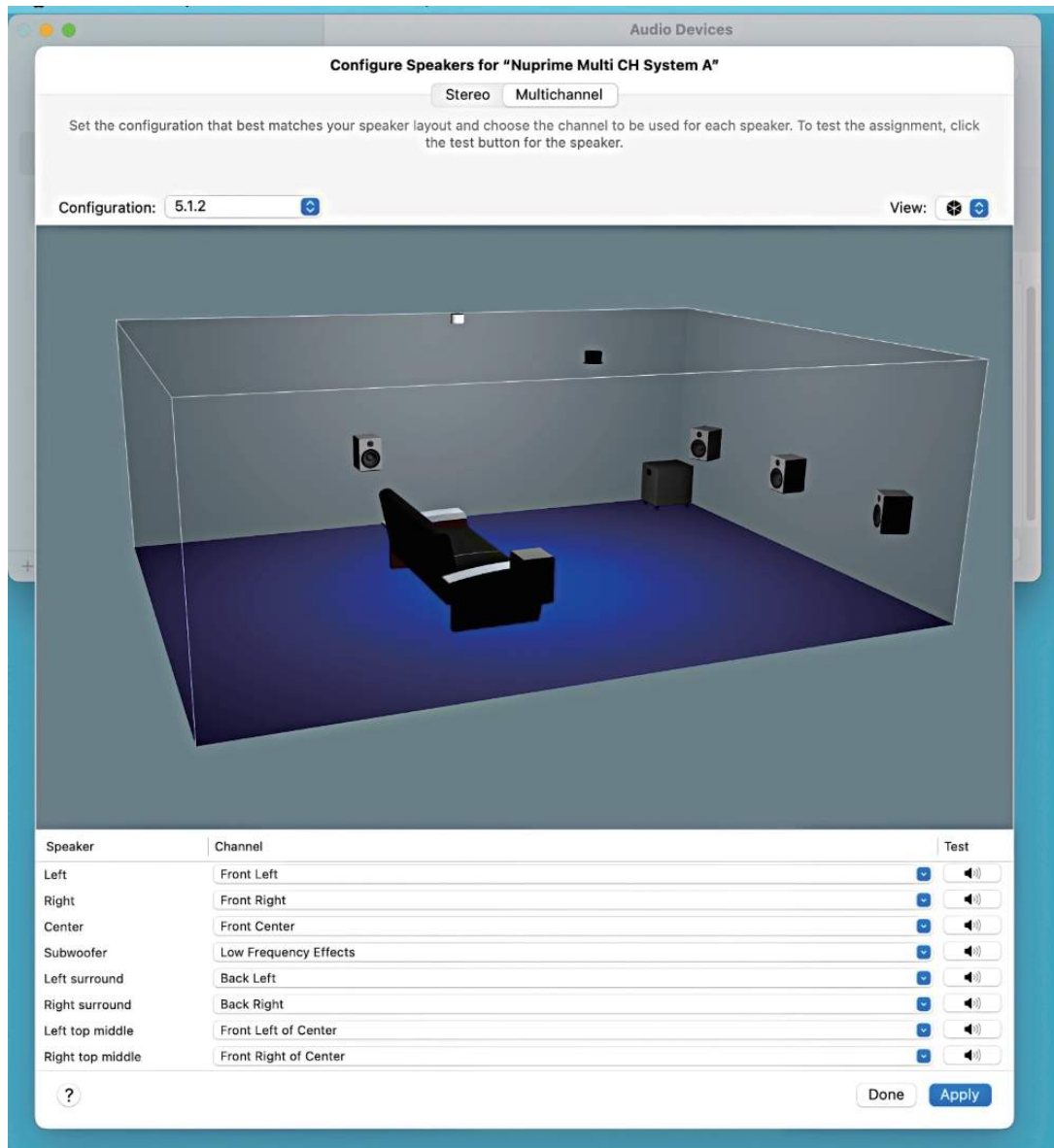## Step 2: Configure Audio Devices in Audio MIDI Setup

MacOS uses Audio MIDI Setup to manage audio devices. We'll combine the two MCX-800AD units into a single multi-channel output device to handle Dolby Atmos PCM audio.

Option 1: One MCX-800AD (e.g., Dolby 5.1.2)
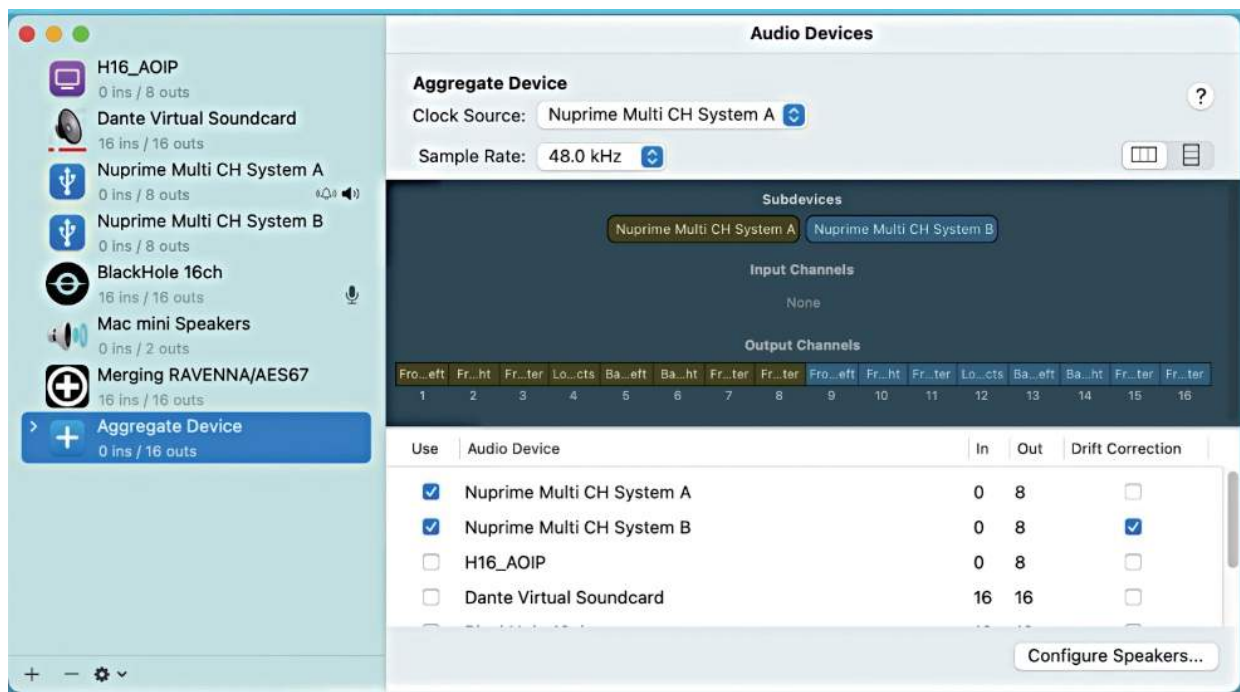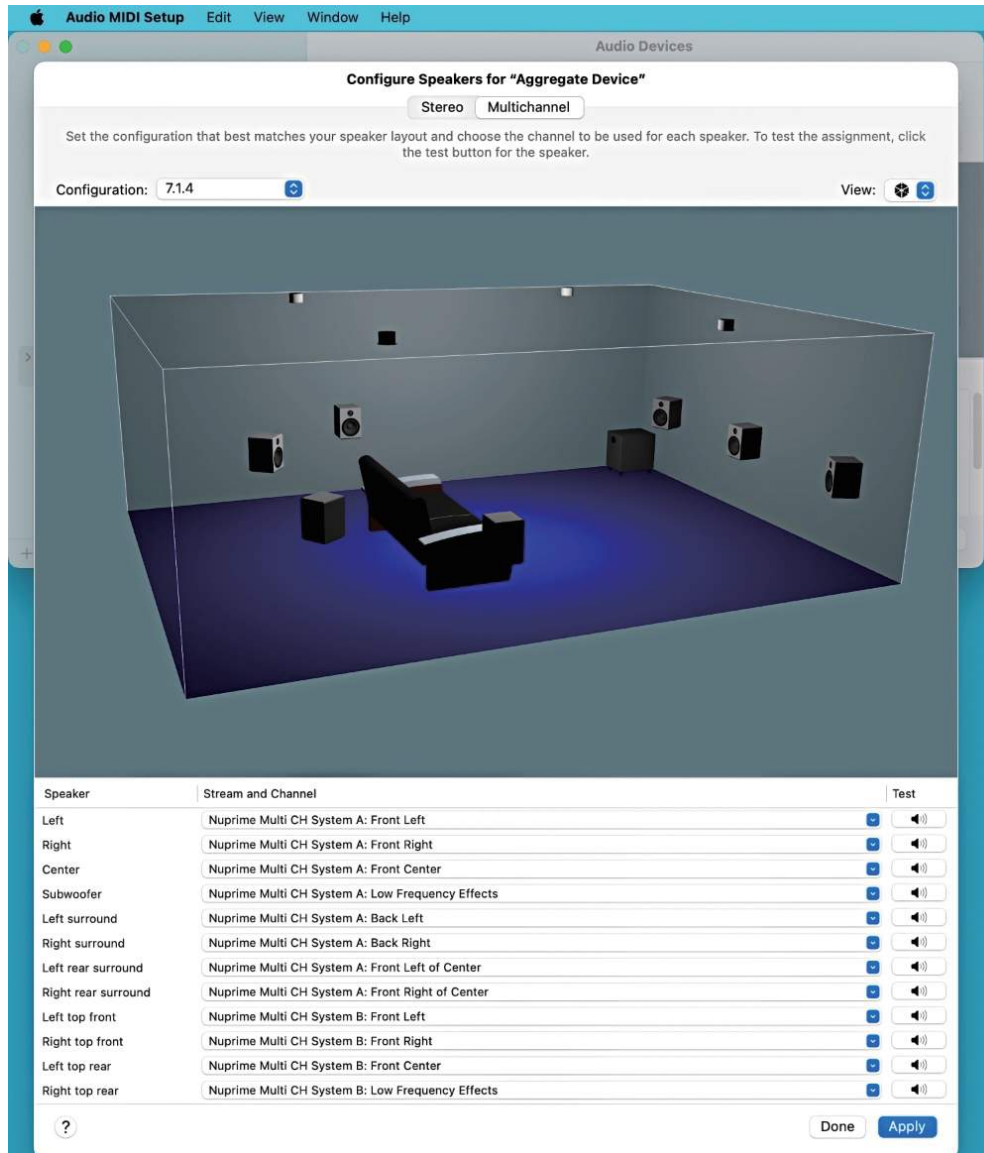
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1. Open Audio MIDI Setup:
   - Go to Applications > Utilities > Audio MIDI Setup.
2. Locate the Device:
   - In the left sidebar, find the MCX-800AD (e.g., "Nuprime MCX-800AD A" if USB Switch is set to A).
3. Set Multi-Channel Output:
   - Select the MCX-800AD, then click Configure Speakers.
   - Choose Multichannel and select 5.1.2 Surround.
   - Assign each channel to the corresponding speaker output. Channel 1 to 8 default order for Dolby Atmos: FL, FR, FC, LFE, SL, SR, TFL, TFR. Note: that MacOS Audio MIDI shows "Back Left" and "Back Right" in 5.1.2 setting and should be mapped to "Surround Left" and "Surround Right".
4. Save Settings:
   - Click Apply, then Done.

Option 2: Two MCX-800AD Units (e.g., Dolby 7.1.4)

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1. Open Audio MIDI Setup:
   - Go to Applications > Utilities > Audio MIDI Setup.
2. Verify Device Recognition:
   - In the left sidebar of the Audio Devices window, look for both MCX-800AD units listed under USB devices (e.g., "Nuprime MCX-800AD A" and "Nuprime MCX-800AD B").
3. Create an Aggregate Device:
   - Click the + button at the bottom left of the window and select Create Aggregate Device.
   - Rename it for clarity (e.g., "MCX-800AD Aggregate") by double-clicking the default name.
   - In the right panel, check the boxes next to both MCX-800AD units to include them in the aggregate device.
4. Configure Aggregate Device Settings:
   - Set the Clock Source to one of the MCX-800AD units (e.g., "Nuprime MCX-800AD A") to maintain synchronized playback across both units. The Clock Source device should have Drift Correction unchecked, while all other units syncing to it should have Drift Correction enabled.
   - Set the Sample Rate to 48 kHz, which is standard for most Dolby Atmos content and supported by the MCX-800AD.
5. Set Up Multi-Channel Output:
   - Select the aggregate device in the left sidebar.
   - Click Configure Speakers at the bottom right.
   - Choose Multichannel from the dropdown menu.
   - Select your speaker configuration (e.g., 7.1.4 Surround for a typical Dolby Atmos setup).
   - Map each channel to the correct speaker output on the MCX-800AD units.
     - First unit selected by Audio MIDI has Channel 1 to 8 as FL, FR, FC, LFE, SL, SR, SBL, SBR.
     - Second unit selected by Audio MIDI has Channel 1 to 4 as TFL, TFR, TRL, TRR.
6. Apply the Settings:
   - Click Apply and then Done to save your configuration.

Step 3: Configure Applications for Dolby Atmos and Multi-Channel Audio

Dolby Atmos content requires applications that can decode the Atmos metadata and output multi-channel PCM audio to your aggregate device. Here's how to set up for movies, games, and Apple immersive music.

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For Watching Movies

1. Choose a Compatible Media Player:
   - Streaming services such as Amazon Prime Video, Disney+, Max, Netflix, Paramount+, Vudu, and Games
   - Use a player like VLC or Plex that supports multi-channel audio output and Dolby Atmos decoding (if available).
2. Configure Audio Settings:
   - Open the media player's preferences or settings menu.
   - Set the audio output device to MCX-800AD Aggregate.
   - If the player supports Dolby Atmos, enable it and select your speaker configuration (e.g., 7.1.4).
   - Load a movie with a Dolby Atmos soundtrack and play it to test the setup.

For Playing Games

1. Select a Dolby Atmos-Supported Game:
   - Ensure your game supports surround sound or Dolby Atmos (e.g., titles on platforms like Steam or Apple Arcade may offer this).

2. Adjust Game Audio Settings:
   - Navigate to the game's audio settings.
   - Set the output device to MCX-800AD Aggregate.
   - Choose a multi-channel configuration (e.g., 7.1 or Atmos, if available).
   - Start the game and verify that sound comes from all speakers, including height channels.

For Apple Immersive Music (Spatial Audio)

1. Open Apple Music:
   - Launch Apple Music on your Mac Mini.
2. Enable Dolby Atmos:
   - Go to Music > Preferences > Playback.
   - Under Audio Quality, check that Dolby Atmos is set to Always On or Automatic.
   - Select MCX-800AD Aggregate as the output device.
3. Play Spatial Audio Tracks:
   - Find tracks labeled with the Dolby Atmos badge in Apple Music and play them to experience immersive sound through your speaker setup.

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Step 4: Testing and Calibration

1. Test Audio Output:
   - Play a multi-channel test file (available online or within some media players) to ensure each speaker produces sound as expected.
2. Adjust Levels and Positioning:
   - In Audio MIDI Setup, revisit the Configure Speakers section to fine-tune channel levels or correct any mapping errors.
   - Alternatively, adjust settings within your media player, game, or Apple Music if they offer calibration options.
3. Optimize Your Setup:
   - For the best Dolby Atmos experience, ensure height speakers are positioned above the listening area. Consider room correction software or manual calibration for balanced sound.

Notes and Troubleshooting

1. USB Bandwidth Issues:
   - If you hear audio dropouts, the USB ports may be overloaded. Try connecting the MCX-800AD units to separate USB controllers (e.g., different sides of the Mac Mini).
2. Synchronization Problems:
   - If sound lags between speakers, double-check the Clock Source in the aggregate device settings. Ensure both units are locked to the same clock.
3. Application Limitations:
   - Some apps may not fully support aggregate devices or multi-channel PCM output. Test alternative players or games if you encounter issues. For movies, ensure the audio track is Atmos-encoded and the player can decode it.
4. Dolby Atmos Decoding:
   - MacOS decodes Dolby Atmos internally and outputs multi-channel PCM via USB, which the MCX-800AD then amplifies. Ensure your content and applications are Atmos-compatible for the full effect.

Conclusion

With one MCX-800AD, you can decode up to 8 channels (e.g., Dolby 5.1.2), while two units expand your setup to 12 channels (e.g., Dolby 7.1.4). This guide equips you to configure either option with your Mac Mini, delivering an immersive Dolby Atmos experience tailored to your needs. Enjoy your audio adventure!

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NuPrime's Limited Warranty and Limitation of Liabilities

ADDITIONAL RIGHTS

For consumers, who are covered by consumer protection laws or regulations in their country of purchase or, if different, their country of residence, the benefits conferred by this warranty are in addition to all rights and remedies conveyed by such consumer protection laws and regulations. This warranty does not exclude, limit or suspend any rights of consumers arising out of nonconformity with a sales contract. Some countries, states and provinces do not allow the exclusion or limitation of incidental or consequential damages or allow limitations on how long an implied warranty or condition may last, so the limitations or exclusions described below may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary by country, state or province. This limited warranty is governed by and construed under the laws of the country in which the product purchase took place.

LIMITED WARRANTY

For a period of TOW YEAR from the date of retail purchase by the original end-user purchaser ("Warranty Period"), NuPrime warrants (in) this product against defects in materials and workmanship, and (ii) that each Product, unmodified and under normal use and conditions, will substantially comply with NuPrime' applicable written technical documentation for the Product. NuPrime reserves the right to make substitutions and modifications from time to time in the specifications of Products sold by NuPrime, provided that such substitutions or modifications do not materially affect overall Product performance.

If a hardware defect exists and a valid claim is received within the Warranty Period, at its option and to the extent permitted by law, NuPrime will (1) repair the hardware defect at no charge, using new or refurbished replacement parts, (2) exchange the product with a product that is new or which has been manufactured from new or serviceable used parts and is at least functionally equivalent to the original product, or (3) refund the purchase price of the product. NuPrime may request that you replace defective parts with user-installable new or refurbished parts that NuPrime provides in fulfillment of its warranty obligation. A replacement product/part assumes

the remaining warranty of the original product or ninety (90) days from the date of replacement or repair, whichever provides longer coverage for you. When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes NuPrime's property. When a refund is given, your product becomes NuPrime's property.

OBTAINING WARRANTY SERVICE

If you purchased the product in the U.S., deliver the product, at your expense, to any NuPrime Service Center located in the U.S. If you purchased the product outside of the U.S., deliver the product to any NuPrime Authorized Importer in the country where you purchased the product. Be aware, however, that not all countries have NuPrime Authorized Service Providers ('NASP') and not all Authorized Service Providers outside the country of purchase have all parts or replacement units for the product. If the product cannot be repaired or replaced in the country it is in, it may need to be sent to a different country or returned to the country of purchase at your expense for repair or replacement. If you seek service in a country that is not the country of original purchase, you will comply with all applicable import and export laws and regulations and be responsible for all custom duties, V.A.T. and other associated taxes and charges. Where international service is available, NuPrime may repair or exchange defective products and parts with comparable products and parts that comply with local standards.

You can always deliver the product to NuPrime's U.S.A or Taiwan service center for obtaining warranty service, however, you may have to pay for shipping cost.

NuPrime may send you user-installable new or refurbished replacement product or parts to enable you to service or exchange your own product ("DIY Service"). Upon receipt of the replacement product or part, the original product or part becomes the property of NuPrime and you agree to follow instructions, including, if required, arranging the return of original product or part to NuPrime in a timely manner.

When providing DIY Service requiring the return of the original product or part, NuPrime may require a credit card authorization as security for the retail price of the replacement product or part and applicable shipping costs. If you follow instructions, NuPrime will cancel the credit card

beyond ordinary

authorization, so you will not be charged for the product or part and shipping costs. If you fail to return the replaced product or part as instructed or the replaced product or part is not eligible for warranty service, NuPrime will charge the credit card for the authorized amount.

EXCLUSIONS AND LIMITATIONS

This Limited Warranty applies only to hardware products manufactured by or for NuPrime that can be identified by the "NuPrime" trademark, trade name, or logo affixed to them. The Limited Warranty does not apply to any non-NuPrime hardware products or any accessories, even if packaged or sold with NuPrime hardware. Non-NuPrime manufacturers, suppliers, may provide their own warranties. Other accessories distributed by NuPrime under the NuPrime brand name are not covered under this Limited Warranty. This warranty does not apply: (a) to damage caused by accident, abuse, misuse, misapplication, liquid contact, fire, earthquake, non-NuPrime products, or other external causes; (b) to damage caused by service performed by anyone who is not a NASP; (c) to a product or a part that has been modified without the written permission of NuPrime; (d) to consumable parts, such as batteries, or protective coatings designed to diminish over time unless failure has occurred due to a defect in materials or workmanship; (e) to cosmetic damage, including but not limited to scratches, dents, and broken plastic on ports; (f) to defects caused by normal wear and tear or otherwise due to the normal aging of the product; or (g) if any NuPrime serial number has been removed or defaced.

Important: Do not open the hardware product. Opening the hardware product may cause damage that is not covered by this warranty. Only NuPrime or a NASP should perform service on this hardware product.

This warranty and remedies set forth above are exclusive and in lieu of all other warranties, remedies and conditions, whether oral or written, express or implied. NuPrime specifically disclaims any and all implied warranties, including, without limitation, warranties of merchantability and fitness for a particular purpose. If NuPrime cannot lawfully disclaim implied warranties under this limited warranty, all such warranties, including warranties of

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merchantability and fitness for a particular purpose are limited in duration to the duration of this warranty. No NuPrime reseller, agent, or employee is authorized to make any modification, extension, or addition to this warranty.

NuPrime is not responsible for direct, special, incidental or consequential damages resulting from any breach of warranty or condition, or under any other legal theory, including but not limited to lost profits, downtime, goodwill, damage to or replacement of equipment and property, any costs of recovering, reprogramming, or reproducing any program or data stored in or used with NuPrime products, and any failure to maintain the confidentiality of data stored on the product. NuPrime specifically does not represent that it will be able to repair any product under this warranty or make a product exchange without risk to or loss of programs or data.

Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages or exclusions or limitations on the duration of implied warranties or conditions, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary by state or province.
Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

Replacement as provided under this warranty is the exclusive remedy of the consumer. Nuprime shall not be liable for any incidental or consequential damages for breach of any express or implied warranty on this product. Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose on this product is limited in duration to the duration of this warranty.

Beyond Ordinary