

## KGUSS TOPPING-DX1-BLACK-KGUSS

# Topping DX1 Mini Stereo DAC Headphone Amplifier Combo

Model: TOPPING-DX1-BLACK-KGUSS

Brand: Topping (Distributed by KGUSS)

## PRODUCT OVERVIEW

The Topping DX1 is a compact and powerful Digital-to-Analog Converter (DAC) and Headphone Amplifier (HPA) combo designed for high-fidelity audio playback. It features the latest AK4493S DAC chip, offering exceptional sound quality with support for high-resolution audio formats. Its plug-and-play compatibility across various operating systems and robust power output make it suitable for a wide range of headphones and audio setups.



*Figure 1: Front view of the Topping DX1 Mini Stereo DAC Headphone Amplifier Combo.*

This image displays the Topping DX1 unit in black, showcasing its compact design with a volume knob and two headphone output jacks (6.35mm and 3.5mm) on the front panel. A small status indicator light is also visible.

## WHAT'S IN THE BOX

- 1 x Topping DX1 Unit
- 1 x USB Cable
- 1 x User Manual
- 1 x Quality Card

**Note, please consider the following information before deciding to add to cart**

1. DX1 does not use nfca module.
2. The volume of line out is fixed at the maximum and cannot be adjusted.
3. The headphone amplifier output and the line output will come out simultaneously.



### Contents list



- |                    |                        |
|--------------------|------------------------|
| <b>1</b> DX1       | <b>3</b> User manual   |
| <b>2</b> USB cable | <b>4</b> Warranty card |

## Spec

	PCM	DSD (Native)	DSD (DOP)
USB IN	44.1kHz-384kHz / 16bit-32bit	DSD64-DSD256	DSD64-DSD128

DX1 DAC parameters (USB In@44.1kHz)	
THD+N @1kHz (A-wt)	<0.0002%
THD @20-20kHz 90kBW	<0.0006%
SNR @1kHz (A-wt)	120dB
Dynamic range @1kHz (A-wt)	120dB
Frequency Response	20Hz-20kHz (±0.3dB)
	20Hz-40kHz (±0.7dB)
Output Level	2.0Vrms @0dBFS
Noise (A-wt)	<2.0uVrms
Channel Crosstalk @1kHz	-112dB
Channel Balance	0.3 dB
Output Impedance	22Ω

DX1 Headphone Amplifier specifications	
THD+N @1kHz (A-wt)	<0.0003% @Output=200mW (32Ω)
	<0.0002% @Output=45mW (300Ω)
THD @20-20kHz 90kBW	<0.003% @Output=200mW (32Ω)
	<0.001% @Output=45mW (300Ω)
SNR @MAX OUT 1kHz (A-wt)	118dB
Dynamic Range @1kHz (A-wt)	118dB
Frequency Response	20Hz-20kHz (±0.3dB)
	20Hz-40kHz (±0.7dB)
Output Level	2.2Vpp @G=L
	11Vpp @G=H
Noise (A-wt)	<1.0uVrms
Channel Crosstalk @1kHz	-86dB
Gain	-2dB (Vrms/FS) @G=L
	12dB (Vrms/FS) @G=H
Output Impedance	< 0.7Ω
Output Power	280mW x 2 @32Ω THD+N<0.1%
	190mW x 2 @64Ω THD+N<0.1%
	51mW x 2 @300Ω THD+N<0.1%
Load Impedance	>8Ω

Figure 2: Contents included with the Topping DX1.

This image shows the Topping DX1 unit, a USB cable, the user manual, and a quality card, laid out to display all items included in the product packaging.

## SETUP

### 1. Connecting to Power and Source

The DX1 is USB-powered, eliminating the need for an additional power adapter. Connect the supplied USB cable from your computer or compatible device to the USB input on the rear panel of the DX1. This single connection provides both power and data transmission.

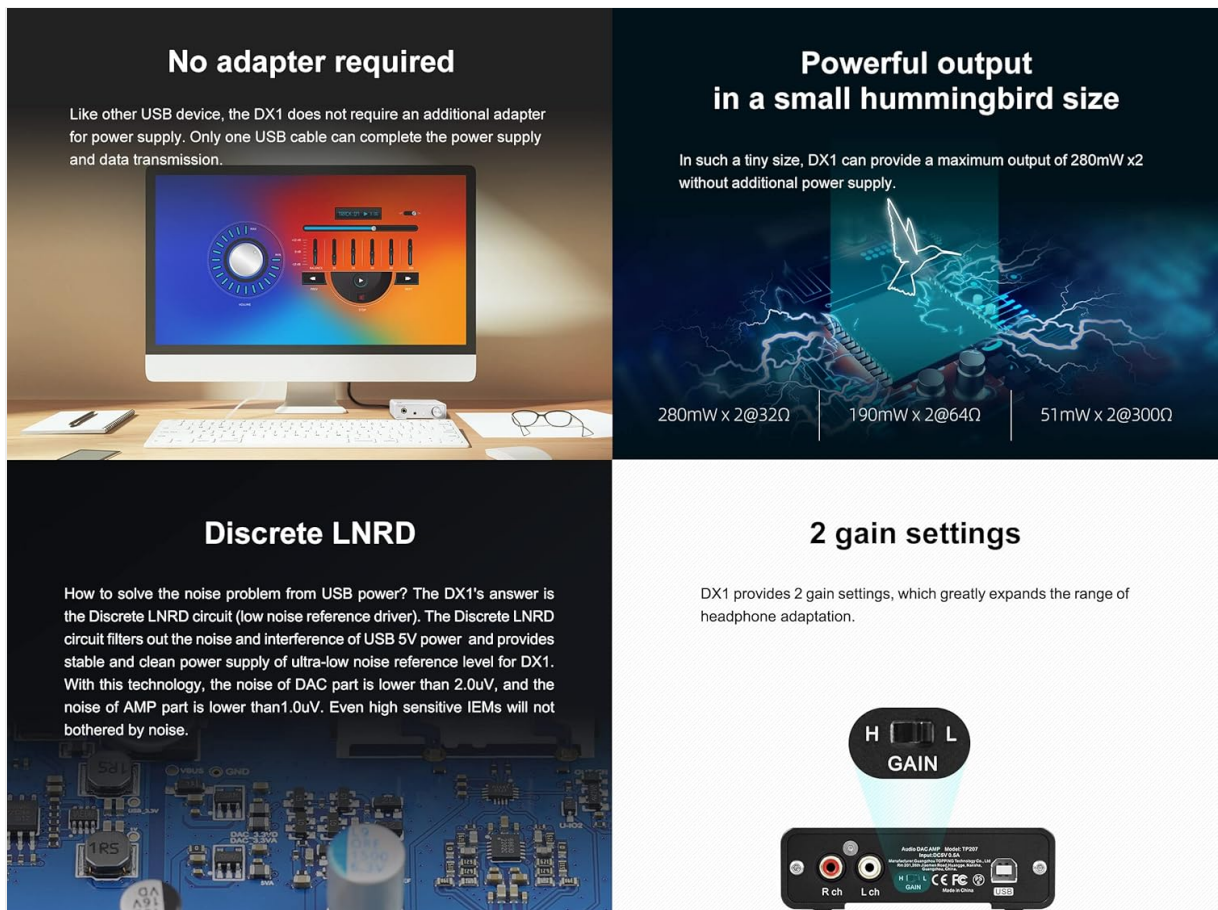


Figure 3: Topping DX1 connected via USB to a computer.

This image shows the Topping DX1 unit placed next to a laptop, with a USB cable connecting the two, emphasizing its "no adapter required" feature and simple USB power supply.

## 2. Driver Installation

The DX1 offers wide plug-and-play compatibility with Windows 10, Windows 11, MAC, Linux, iOS, and Android. For most applications, no driver installation is required. However, for Windows ASIO applications, you may need to install a specific driver. The USB hardware is based on XMOS XU208 and Thesycon custom driver for Windows, ensuring stable and reliable performance.



Figure 4: Software interface showing DX1 as a selectable audio device.

This image displays a computer screen with sound settings open, highlighting the Topping DX1 as an available audio output device, demonstrating its plug-and-play functionality across various operating systems.

### 3. Connecting Headphones

The DX1 provides two headphone output jacks on the front panel: a 6.35mm (1/4 inch) jack and a 3.5mm (1/8 inch) jack. Connect your headphones to the appropriate jack. Both outputs can be used simultaneously.

DX1 has both 6.35mm and 3.5mm headphone output to meet more needs.



*Figure 5: Topping DX1 with in-ear monitors connected.*

This image shows the Topping DX1 unit with a pair of in-ear monitors (IEMs) plugged into the 3.5mm headphone jack on the front, illustrating the connection point for personal audio devices.

#### **4. Gain Settings**

The DX1 features a gain switch on the rear panel, allowing you to select between high (H) and low (L) gain options. This expands the range of headphone adaptation, providing sufficient power for both sensitive In-Ear Monitors (IEMs) and full-sized headphones. Adjust the gain setting based on the impedance and sensitivity of your headphones for optimal performance.

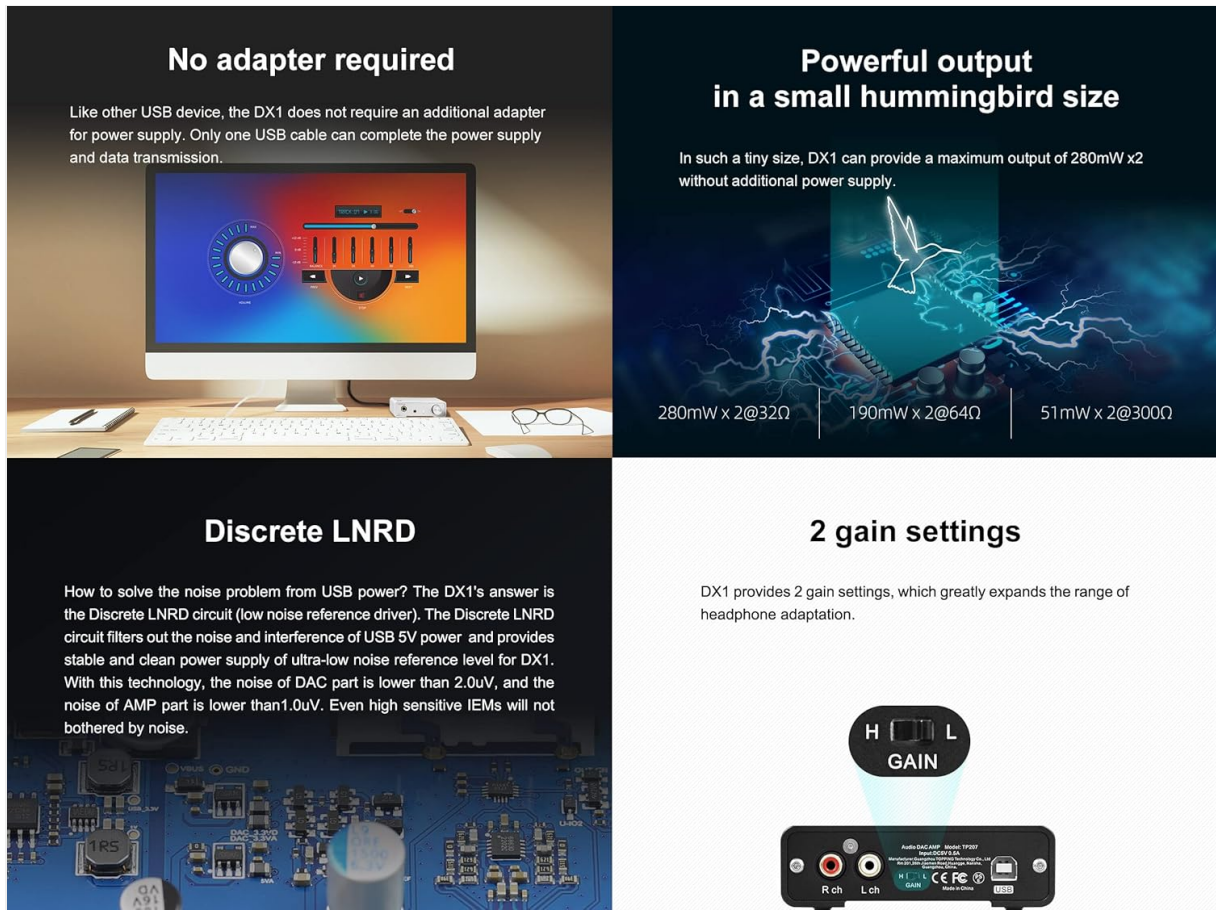


Figure 6: Rear panel of the Topping DX1 highlighting the gain switch.

This image provides a close-up of the rear panel of the Topping DX1, specifically pointing out the "H" (High) and "L" (Low) gain switch, which allows users to adjust the output power for different headphone types.

## 5. Pure DAC Function

The DX1 includes a Line Out with a fixed volume, enabling its use as a pure DAC. This allows you to connect it to external headphone amplifiers, power amplifiers, or other audio equipment. Note that the volume of the Line Out is fixed at maximum and cannot be adjusted. Both the headphone amplifier output and the line output will function simultaneously.



Figure 7: Topping DX1 used as a pure DAC with another amplifier.

This image shows the Topping DX1 unit stacked on top of another audio component, illustrating its capability to function as a standalone DAC (Digital-to-Analog Converter) when connected to external amplifiers.

## Unboxing and Initial Setup Video

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Video 1: TOPPING DX1 DAC Headphone amp Unboxing. This video provides a visual guide to unboxing the Topping DX1 and its included accessories, demonstrating the physical components and their initial presentation.

## OPERATING INSTRUCTIONS

### Volume Control

The large knob on the front panel controls the volume of the headphone output. Rotate it clockwise to increase volume and counter-clockwise to decrease it. Remember that the Line Out volume is fixed and not affected by this knob.

### Audio Playback

Once connected and recognized by your device, select the Topping DX1 as your audio output device in your system's sound settings or media player. The DX1 will then process and output audio through the connected headphones or via the Line Out.

### Discrete LNRD Technology

The DX1 incorporates Discrete LNRD (Low Noise Reference Driver) circuitry. This technology effectively filters out noise and interference from the USB 5V power supply, providing a stable and clean power supply. This results in ultra-low noise levels for both the DAC part (lower than 2.0uV) and the AMP part

(lower than 1.0uV), ensuring a clean audio signal even with highly sensitive IEMs.

## MAINTENANCE

To ensure the longevity and optimal performance of your Topping DX1, follow these general maintenance guidelines:

- Keep the device clean by wiping it with a soft, dry cloth. Avoid using liquid cleaners or abrasive materials.
- Ensure proper ventilation around the unit to prevent overheating.
- Avoid exposing the device to extreme temperatures, humidity, or direct sunlight.
- Handle all cables and connections gently to prevent damage to the ports.
- When not in use for extended periods, disconnect the USB cable.

## TROUBLESHOOTING

If you encounter any issues with your Topping DX1, refer to the following table for common phenomena and their solutions. For more detailed guidance, please watch the troubleshooting video provided below.

Phenomenon	Solution
Can't be turned on. The light is off.	Check the power connection. Try with another DC5V power adapter. Try with another power outlet.
No sound	The device did not power on. Check the power supply. Check the connections for all devices. Insert connection cables all the way in. Check the volume of all devices and whether they are muted. Too low volume on PC. Please check and adjust the computer system volume, music player volume and driver volume. Select the default output device of your music player or computer as this unit.
Noisy playback	Try with other songs. The specifications of songs are not supported by this unit. If the noise appears only when playing DSD files, please check and adjust the computer system volume and music player volume to the maximum. Check to see if the problem is with the source, downstream equipment and cables. If the noise disappears after unplugging the USB cable, it may be interference from the source. You could try to add a USB isolation between this unit and the source.
One channel with noise/no output	Check to see if the problem is with the source, headphone and cables. You can try swapping the left and right channel connections and try with another headphone.
Channel imbalance	Check to see if the problem is with the source, headphone and cables. You can try swapping the left and right channel connections and try with another headphone.

Phenomenon	Solution
The volume is not adjustable	The knob is used to adjust the volume of headphone output. The volume of Line out is not adjustable and is the maximum value.
Filtering mode	Fast roll off linear

## Troubleshooting Video

Your browser does not support the video tag.

Video 2: TOPPING DX1 Trouble shooting. This video provides visual troubleshooting steps for common issues encountered with the Topping DX1, complementing the written guide.

## SPECIFICATIONS

Feature	Detail
Brand	KGUSS (Manufacturer: TOPPING)
Model Number	TOPPING-DX1-BLACK-KGUSS
DAC Chip	AK4493S
USB Controller	XMOS XU208
Max Decoding (PCM)	32-bit/384kHz
Max Decoding (DSD)	Native DSD256
Dynamic Range	120dB
Headphone Output (6.35mm & 3.5mm)	Yes
Output Power (32Ω)	280mW x 2
Output Power (300Ω)	51mW x 2
Gain Settings	High (H) / Low (L)
Line Out	Fixed Volume RCA Output
Power Supply	USB 5V (No external adapter required)
Dimensions (L x W)	3.94" x 3.86" (10.0cm x 9.8cm)
Item Weight	14.9 ounces
Date First Available	October 14, 2022

## WARRANTY AND SUPPORT

### Warranty Information

This product is covered by a warranty provided by HIFI College, an authorized distributor. Key warranty terms include:

- 30-day money-back guarantee for any reason.
- More than 12-month warranty on all quality defects.
- Supports 30-day price matching.

## **Customer Support**

For any questions or support inquiries regarding your Topping DX1, please contact HIFI College directly. They are ready to answer any questions you have 24/7.

Email: [HIFICOLLEGE@gmail.com](mailto:HIFICOLLEGE@gmail.com)

You can also visit the official KGUSS store on Amazon for more information: [KGUSS Amazon Store](#)