



Fosi Audio

Redefining HiFi with Unmatched Value.



Fosi Audio ZH3

All-in-One Desktop HiFi DAC/Headphone Amp/Preamp



Audiophile-Grade Chipset

Noise Floor: 1.9 μ V

Max Output: 2570mW x2

Fully Balanced Headphone Amplifier Circuit

Comprehensive Connectivity



Fosi Audio

Redefining HiFi with Unmatched Value.

Product Story

The ZH3 is a high-performance HiFi DAC headphone amplifier from Fosi Audio's Z series, featuring a minimalist yet refined design that pairs perfectly with the ZD3 and ZA3 for a complete HiFi setup. Equipped with audiophile-grade chipset and Fosi Audio's custom dual-power push-pull fully balanced amplifier circuit, the ZH3 delivers high-resolution audio decoding, powerful output, and exceptionally low noise—designed for users who demand superior sound quality.

With comprehensive input and output options, the ZH3 functions as a DAC, headphone amplifier, and preamp, which can be connected to IEMs, over-ear headphones, active speakers, and amplifiers. Featuring UAC 1.0, it is also compatible with gaming consoles such as the PS5, ensuring seamless connectivity across multiple desktop devices. The ZH3 also includes a remote control, multifunction knob and LCD display for better user experience. Whether you're an audiophile or a passionate music lover, the ZH3 takes you on an extraordinary HiFi journey. Thank you for your support — Fosi Audio remains dedicated to delivering premium audio solutions so every listener can experience breathtaking sound quality.



Highlight Summary

- **Audiophile-Grade Chipset:** With the AKM 4493SEQ DAC, XMOS XU316 audio processor, and four OPA1612 op-amps, the ZH3 supports ultra-high resolution up to PCM 768kHz/32bit and DSD512. The dual-power push-pull fully balanced amplifier circuit with 11 ultra-low-noise LDOs and fixed capacitors achieves a noise floor as low as 1.9 μ V.
- **Powerful Output:** Provides 650mW at 32 Ω via 6.35mm single-ended, and up to 2570mW at 32 Ω via 4.4mm balanced output. Three-gain settings ensure compatibility with headphones from 16–300 Ω , easily driving both IEMs and over-ear headphones.
- **Comprehensive Connectivity:** Supports coaxial, optical, USB, and RCA inputs; 4.4mm, 6.35mm, RCA, and XLR outputs for versatile connections. Functions as DAC, headphone amplifier, or preamp to build a complete HiFi desktop system. The ZH3 supports UAC switching, ensuring seamless use with gaming consoles for both game and music.
- **Versatile Functionality:** Includes bass/treble adjustment, six digital filters, and EQ bypass for personalized sound tuning.
 - **Bypass:** Bypass allows internal EQ (bass/treble) to be defeated, preserving the original sound signal for output.
 - **Trigger:** Equipped with 12V Trigger input and output interfaces, fully compatible with ZD3/ZA3 for linked power on/off, eliminating the need for separate manual switching.
 - **UAC Switching:** USB Audio Class, including UAC 1.0 mode for PS5 and other consoles, and UAC 2.0 for high-res audio.



Specifications

Chipset	XMOS XU316+AKM4493SEQ+ OPA1612 x 4	
Input	Coaxial, Optical, USB, RCA	
Output	4.4mm, 6.35mm, RCA, XLR	
Compatible Impedance	16-300Ω	
Max Sampling Rate	USB	PCM 32bit/768kHz, DSD512
	OPT	PCM 24bit/192kHz
	COAX	PCM 24bit/192kHz
Power Supply	DC 12V/2A	
4.4mm Balanced Output		
Max Output Power	2570mW x 2 （32Ω/THD+N < 1%）	
SNR	≥ 119 dB	
Dynamic Range	≥ 119 dB	
THD+N	≤ 0.00018%	
Noise Floor	≤ 4.9μV	
6.35mm Single-Ended Output		
Max Output Power	640mW x 2 （32Ω/THD+N < 1%）	
SNR	≥ 121 dB	
Dynamic Range	≥ 121 dB	
THD+N	≤ 0.00024%	
Noise Floor	≤ 1.9μV	

Product Gallery





Fosi Audio

Redefining HiFi with Unmatched Value.

Product Gallery





Fosi Audio

Redefining HiFi with Unmatched Value.

As a DAC Headphone Amplifier

ZH3 DAC/Amp + i5 Headphones





Fosi Audio

Redefining HiFi with Unmatched Value.

As a Pure Headphone Amplifier

ZD3 DAC + ZH3 Amp + i5 Headphones





Fosi Audio

Redefining HiFi with Unmatched Value.

As a Preamp

ZD3 DAC + ZH3 Preamp + ZA3 Amp + SP601 Speakers



About Fosi Audio

Established in 2017, Fosi Audio is dedicated to the development, manufacturing, and global sales of high-quality HiFi audio products. The name FOSI embodies our four core principles:

Foresight – thinking further ahead;
Openness – embracing users' voices;
Sincerity – serving you wholeheartedly;
Innovation – upholding technical excellence.

Driven by these values, we have built a comprehensive lineup of audio equipment, including home audio amplifiers, preamps, DACs, speakers, turntables, CD players, headphones, desktop and portable headphone DAC amps, etc.

As a rising star in the HiFi audio world, Fosi Audio has earned widespread recognition and trust from audiophiles and music lovers. With a distribution network spanning over 100 countries, we are delivering exceptional sound experiences across the globe.

We believe every sound matters. With cutting-edge innovation, we make every note clear, real, and full of emotion, empowering you to “Hear the Unheard”. Driven by our mission to redefine HiFi with unmatched value, Fosi Audio continues to fuel its passion for the HiFi industry, ramp up R&D efforts, and co-create new HiFi equipment with users. We pledge to bring more amazing HiFi gear with cutting-edge technology, innovative design, and premium quality to users worldwide.

Official Website: www.fosiaudio.com

Official Forum: community.fosiaudio.com

E-Mail: support@fosiaudio.com



Facebook Group



Youtube



Whatsapp