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| | REFERENCE NAME: |
| | ZEN DAC 3 |
| | VERSION NUMBER: |
| | ZEN DAC 3 PACKAGING v1.8 |
| Date: 16/04/2024 | |



ZEN DAC

Balanced Headphone Amp/Pre-Amp

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|--|---|---|
| Supports DSD 512 (22.6/24.6MHz) and PCM 768kHz natively | 16-Core XMOS for DSD512 and MQA full decoding | Improved GMT clock for reduced jitter and enhanced accuracy |
| Burr-Brown® chipset. True Native DSD Bit-Perfect DXD/PCM | Increases the level of drive for low-sensitivity headphones | XBass+ restores lost bass from open headphones |

ZEN DAC

The ZEN DAC 3 is the key to unlocking the world of high-res music on streaming platforms - supporting sample rates up to PCM 768kHz, DSD512 and MQA. Its maximum output power of 390mW surpasses common laptops by 5-10 times, driving premium headphones with superior performance. The balanced output and volume control enable effortless connection to active speakers, enhances usability and renders it an exceptional DAC/Amp for both home and office use.

FEATURES

- Supports all high-res music formats up to PCM 768kHz, DSD512, and MQA
- Equipped with a USB-C input for plug-and-play connectivity
- Offers both 6.3mm Single-Ended and 4.4mm Balanced headphone outputs, delivering up to 390mW of power for various headphones and earphones
- Features RCA and 4.4mm balanced outputs with variable and fixed volume settings, allowing for seamless connection to your active speakers, preamplifiers, or power amplifiers
- Includes XBass+ to restore lost bass frequencies from open headphones
- Comes with PowerMatch, a switchable gain to ensure optimal power for the headphones you are using
- Improved low-jitter GMT (Global Master Timing) clock provides >20dB better performance
- Improved circuitry, including enhanced DC offset, ensures heightened signal purity and accuracy
- Incorporates a 16-Core XMOS low-latency microcontroller for DSD512 and MQA full decoding

SPECIFICATIONS

Digital stage
Hi-res support: 768kHz PCM; DSD512 (22.6MHz); full MQA decoding

Line Output Section
Output Power: 2V / 6.2V max. (variable); 4.2V fixed
1V / 3.3V max. (variable); 2.1V fixed
Output impedance: Balanced 4.4mm $\leq 200\Omega$; Single-Ended RCA $\leq 100\Omega$
SNR: >math>\geq 113\text{dB}</math> @ 0dBFS
DNR: >math>\geq 113\text{dB}</math> @ 0dBFS
THD + N: 4.4mm <math>< 0.0015\%</math> @ 0dBFS; RCA <math>< 0.003\%</math> @ 0dBFS

Headphone Output Section
Max. ^ Output Power: >math>> 70\text{ mW}</math> @ 600Ω; >math>> 300\text{ mW}</math> @ 32Ω
Balanced 4.4mm: >math>> 18\text{ mW}</math> @ 600Ω; >math>> 210\text{ mW}</math> @ 32Ω
Single-Ended 6.35mm
RMS Output Power: >math>> 390\text{ mW}</math> @ 64Ω
Balanced 4.4mm: >math>> 210\text{ mW}</math> @ 32Ω
Single-Ended 6.35mm: $\leq 1\Omega$
Output impedance: $\leq 1\Omega$
SNR: >math>\geq 109\text{dB}</math> @ 0dBFS (6.2V 4.4mm/3.3V 6.35mm)
DNR: >math>\geq 109\text{dB}</math> @ 0dBFS (6.2V 4.4mm/3.3V 6.35mm)
THD + N: 4.4mm <math>< 0.005\%</math> (2V @ 600Ω); 6.35mm <math>< 0.013\%</math> (1.27V @ 32Ω)

General
Frequency Response: 5Hz - 90kHz ($\pm 3\text{dB}$)
Power supply requirement: USB-C or DC 5V/0.5A (centre +ve)
Power consumption: No Signal ~0.5W; Max Signal ~2.5W
Dimensions: 158 x 115 x 35 mm (6.2" x 4.6" x 1.4")
Net weight: 456g (1.0 lbs)
Limited Warranty: 12 months*
*12 months typical or as permitted/required by local reseller laws. *See FAQ at ifi-audio.com for more information.

CONNECTIVITY

- Digital Inputs: USB-C
- Analogue Outputs: 4.4mm Balanced/RCA
- Headphone Outputs: 4.4mm Balanced/6.3mm Single-Ended

CONTENTS

- ZEN DAC 3
- RCA Cable
- 3.5 to 6.3 mm Adapter
- Quick Start Guide
- Instruction Card

Specifications are subject to change without notice.

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안정인증번호: Certificate No. R-R-IFI-ZENDAC3
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Ver.1

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