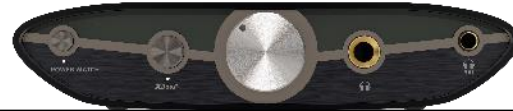


Evolution of ZEN DAC



ZEN DAC 3



ZEN DAC V2



ZEN DAC

	ZEN DAC 3	ZEN DAC V2	ZEN DAC
Retail Price	\$229	\$199	\$129
Hi-Res Support	PCM 768 kHz DSD 512 MQA Decoding	PCM 384 kHz DSD 256 MQA Decoding	PCM 384 kHz DSD 256 MQA Rendering
Headphone Outputs		4.4mm Balanced, 6.3mm SE	
Line Outputs		4.4mm Balanced, RCA SE	
Inputs	USB-C	USB-B 3.0	USB-B 3.0
USB Input Overvoltage Protection	Yes	No	No
Clocking	Upgraded GMT	Upgraded GMT	Standard Clock
Output DC offset	Improved	Standard	Standard
XMOS Chip	16-Core	16-Core	8-Core
Other Features	XBass+, PowerMatch, Fixed/Variable output	TrueBass, PowerMatch, Fixed/Variable output	TrueBass, PowerMatch, Fixed/Variable output
6.3mm HP (RMS)	>210mW @ 32Ω	>210mW @ 32Ω	>210mW @ 32Ω
4.4mm HP (RMS)	>390mW @ 64Ω	>390mW @ 64Ω	>390mW @ 64Ω
SNR (Headphone Section)	>109 dBA (6.2V Bal/3.3V SE)	>109 dBA (6.2V Bal/3.3V SE)	>109 dBA (6.2V Bal/3.3V SE)
THD+N (Headphone Section)	≤0.005% (2V @ 600Ω)	<0.005% (125mW @ 32Ω)	<0.005% (125mW @ 32Ω)

Specifications

Input		USB-C
Formats	PCM DSD MQA	768kHz 512 Full Decoder
DAC		Bit-Perfect DSD & DXD DAC by Burr Brown
Headphone Output		BAL 4.4mm/UnBAL 6.3mm
Output Power (RMS)	Balanced UnBAL	390mW@32Ω; 7.2V@600Ω 210mW@32Ω; 3.8V@600Ω
Output Impedance		<1Ω (BAL/UnBAL)
SNR		109dB(A) (BAL/UnBAL)
DNR		109dB(A) (BAL/UnBAL)
THD + N	Balanced UnBAL	<0.006% (2.0V @ 600Ω) <0.006% (1.27V @ 32Ω)
Line Output		BAL 4.4mm/UnBAL RCA
Output Power	Balanced UnBAL	2V-6.2V max. (variable); 4.2V fixed 1V-3.3V max. (variable); 2.1V fixed
Output Impedance		<200Ω BAL; <100Ω UnBAL
Frequency Response		5Hz - 90kHz (+/-3dB)
Power Consumption		~2.5W Max Signal
Dimensions		158x115x35mm (6.2" x 4.6" x 1.4")
Weight		456g (1.0 lbs)
Warranty period		12 months

Contents

ZEN DAC

1. PowerMatch (high/low)
PowerMatch setting should be set to Low for USB and on high for all other headphones.

2. TrueBass (high/low)
Many headphones lack the correct bass response. TrueBass is an analogue DC cut designed to add back the lost bass response. It is not used on active HiFi headphones.

3. Analogue Volume control
The analogue volume control (ZEN DAC) is superior to any digital volume control. It can be used to control the bandwidth and the gain of the analogue volume control. The output of the DAC is set to 'True' if the analogue volume is engaged.

4. Audio Format LED (MHA)
The LED volume control allows the audio format and sampling frequency to be selected by ZEN DAC. From the most common:

LED	Mode
Yellow	PCM 44.1/48kHz
White	PCM 88.2/96/176.4/192kHz 16/24bit
Cyan	DSD 64/128
Red	DSD 256
Green	MQA
Blue	MQA Studio
Magenta	Original Sample Rate

5. Single-ended 3.5mm output
Connect single-ended 3.5mm headphones. Will output an unbalanced 3.5mm headphone, connect with a 3.5mm to 3.5mm adapter.

6. Balanced 4.4mm analogue output
Connect balanced 4.4mm headphones.

7. Balanced 4.4mm analogue output
This is an analogue output with a balanced 4.4mm connector. The output can be used for active speakers or an amplifier. The volume control is the same as the USB output.

8. Variable Head switch
When the variable 4.4mm analogue output is used, this switch will allow you to select between the 4.4mm analogue output and the USB output.

9. RCA analogue output

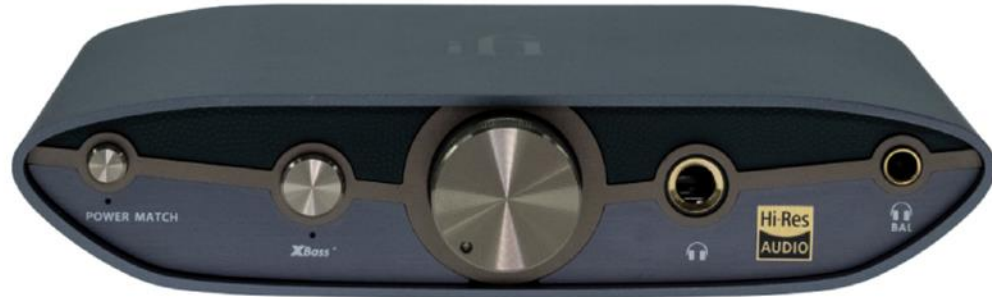
10. USB audio and power input
This is a USB input for computers. ZEN DAC has its own computer audio source and provides the power supply.

11. DC 5V power
ZEN DAC is powered by 5Vdc, either via the included USB cable. It is not recommended to use a 5Vdc power supply that is not included. For more information on power supply options, please contact our support team.

Specifications

Input	USB 2.0 (44.1/48/96/192kHz)
Output	4.4mm balanced (16/24bit 44.1/48/96/192kHz), 3.5mm unbalanced (16/24bit 44.1/48/96/192kHz)
Power	200mW (100mW per channel)
THD	< 0.001%
SNR	> 110dB (A-weighted, 1kHz)
IMD	< 0.001% (1kHz, 100mW)
THD+N	< 0.001% (1kHz, 100mW)
Frequency Response	20Hz to 20kHz (100mW)
Input Impedance	> 100kΩ
Output Impedance	< 1Ω
Power Consumption	< 1W
Dimensions	100mm x 30mm x 15mm
Weight	40g
Warranty period	2 years

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ifi warranty

In order to activate the warranty for this iFi product, you must register with the iFi website.

Component:

Serial no:

