

ZEN DAC 3 Tech Lowdown



ZEN DAC

Supports Higher Quality Files

Hi-Res Heaven

ZEN DAC 3 supports all PCM formats up to **768kHz**, DSD natively supports up to **DSD 512**, and even offers full **MQA decoding**.

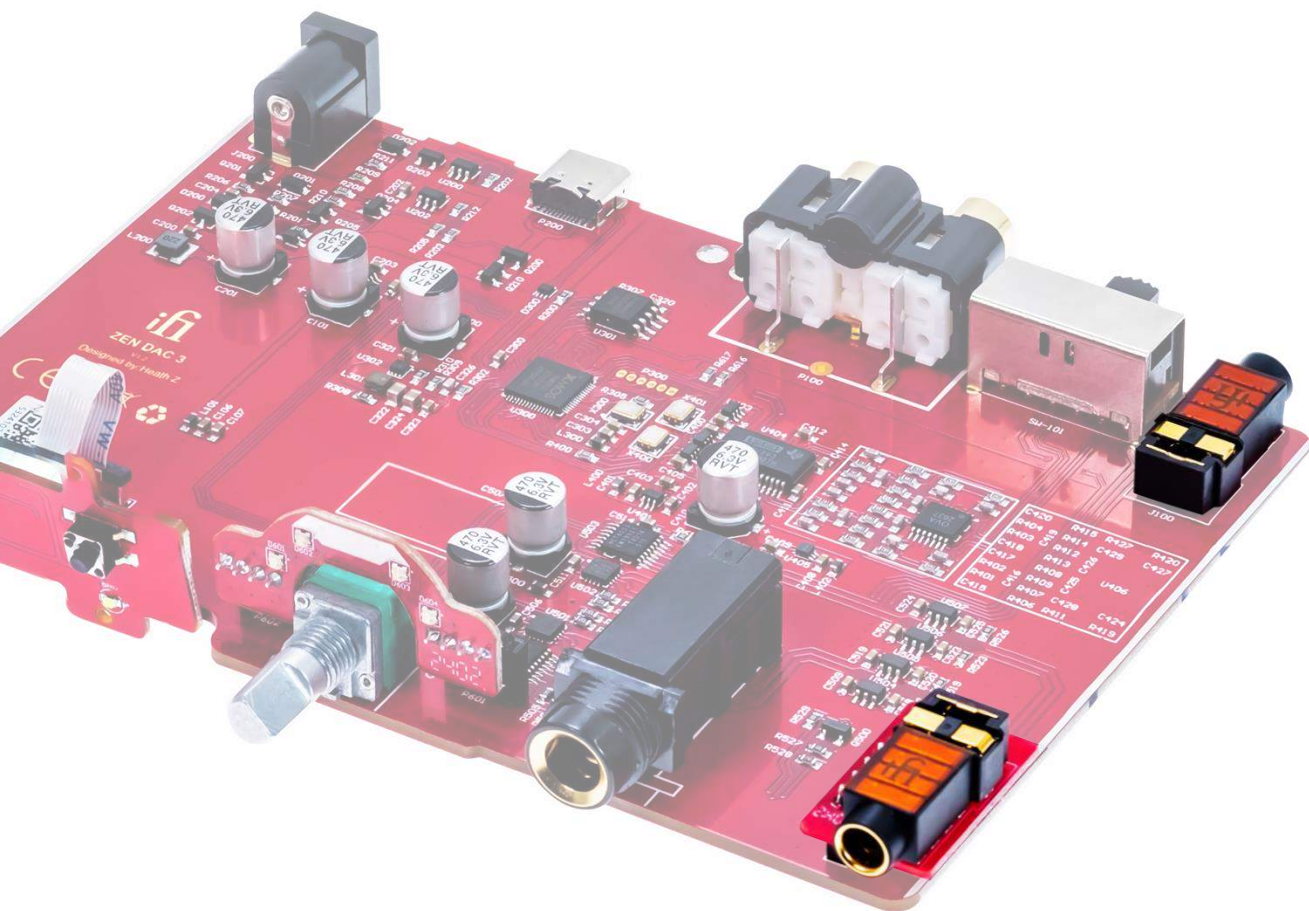


Your Way or the Hi-Way

Offering **both** fixed and variable output gain options, ZEN DAC 3 can seamlessly connect to headphones, an amplifier or active speakers.



Beautifully Balanced



ZEN DAC 3 features **two** 4.4mm balanced outputs, one for headphones and one for other amplifiers, effectively **minimising distortion and crosstalk**.

PowerMatch and XBass+

ZEN DAC 3 adopts **XBass+**, the newest iteration of iFi's signature analogue EQ.

XBass+ Add back the loss bass frequencies
from open headphones

Power Match is a gain boost for hungrier headphones



Power Up, Protect On!

DC offset output voltage has been improved in the ZEN DAC 3.

This means less audible clicks while switching functions.

ZEN DAC 3 also benefits from input **overvoltage protection** via the all-new **USB-C** port.



Key Features

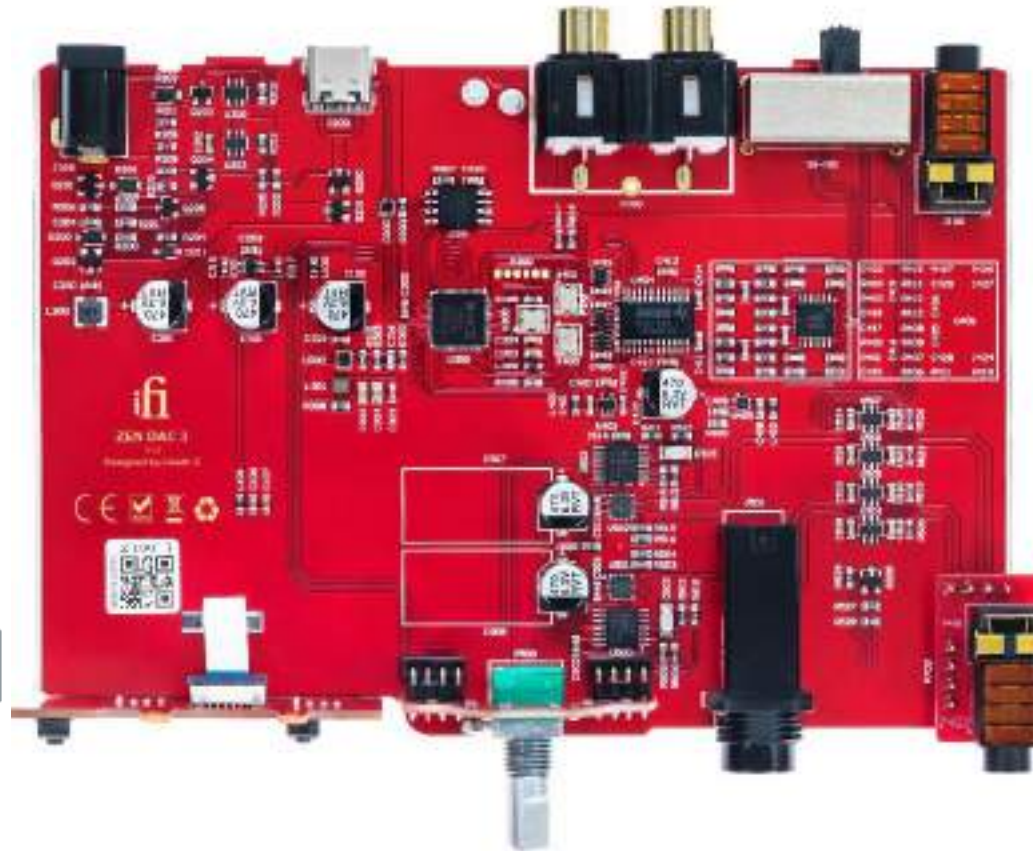
Ultra-res audio: PCM 768kHz, DSD 512 and Full MQA Decoding



USB-C input for **plug-and-play** connectivity

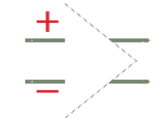


Fixed or variable output gain for optional **preamp functionality**



Improved DC offset and USB-C input **overvoltage protection**

Balanced



4.4mm balanced headphone and line outputs

XBass⁺

XBass+ and PowerMatch analogue processing modes

ZEN DAC 3 vs. ZEN DAC V2 Looks



Evolution of the ZEN DAC



ZEN DAC 3



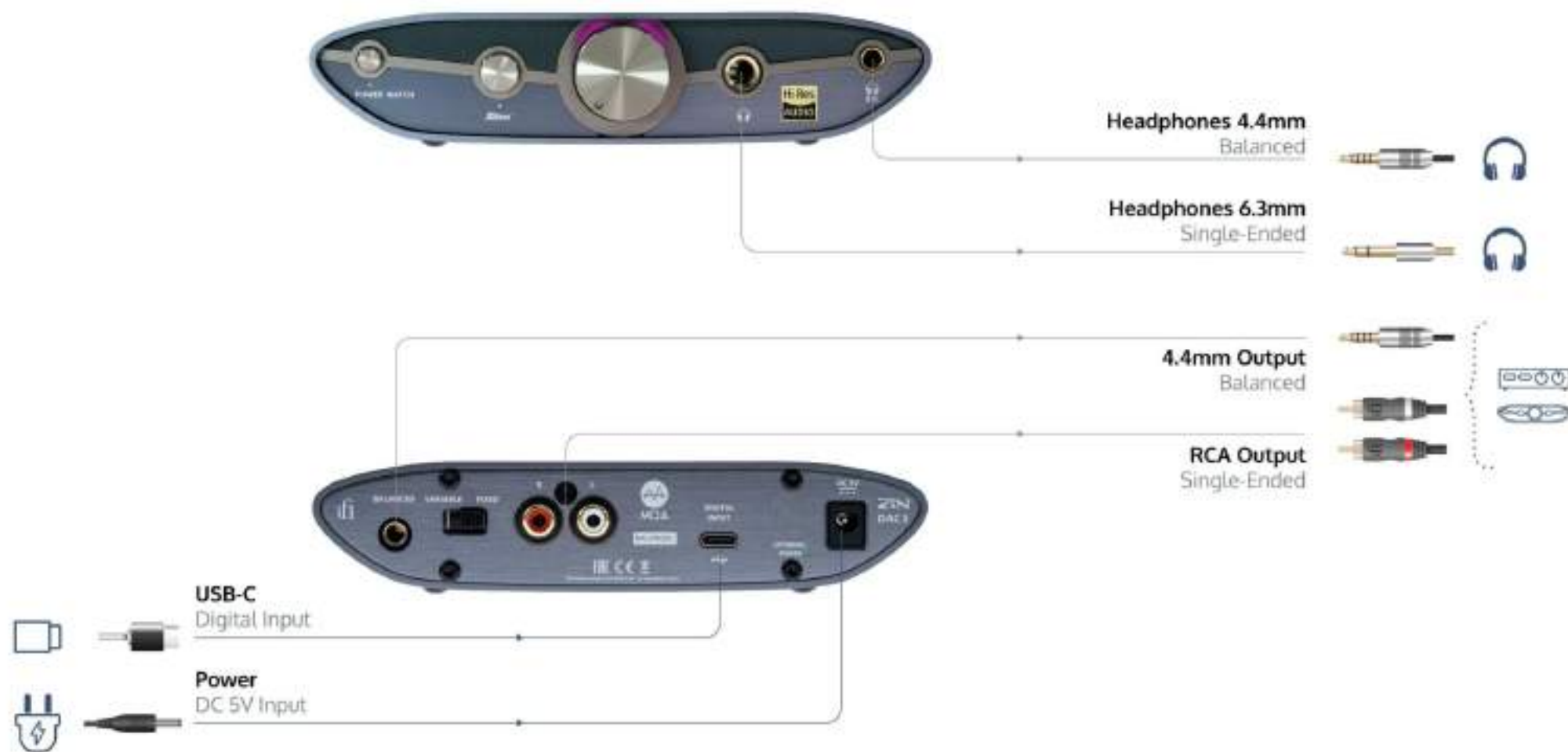
ZEN DAC V2



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)

Connection Guide



Box Contents



Specifications

Input		USB-C
Formats	PCM	768kHz
	DSD	512
		Full Decoder
DAC		Bit-Perfect DSD & DXD DAC by Burr Brown
Headphone Output		BAL 4.4mm/UnBAL 6.3mm
Output Power (RMS)	Balanced	390mW@64Ω; 6.7V@600Ω
	UnBAL	210mW@32Ω; 3.3V@600Ω
Output Impedance		<1Ω (BAL/UnBAL)
SNR		109dB(A) (BAL/UnBAL)
DNR		109dB(A) (BAL/UnBAL)
THD + N	Balanced	<0.006% (2.0V @ 600Ω)
	UnBAL	<0.006% (1.27V @ 32Ω)
Line Output		BAL 4.4mm/UnBAL RCA
Output Power	Balanced	2V-6.2V max. (variable); 4.2V fixed
	UnBAL	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