

Tech Lowdown

GET THE BEST OUT OF YOUR HEADPHONES

The ZEN DAC is a USB DAC/headphone amplifier that connects to PCs, Macs and smart devices via USB to take your audio experience to a higher plane.

Now we present our upgrade to get even more out of your headphones.



AUDIO FORMAT LEDS



HI-RES DAC

- NEW! 16-core XMOS chip
- Now a FULL MQA decoder
- Completes all 3 unfolds to deliver the highest possible sound quality
- Handles up to PCM 384kHz and DSD256











Double-DSD128 Quad-DSD256

5.6 6.2 11.2 12.4

176.4 192 352.8 384

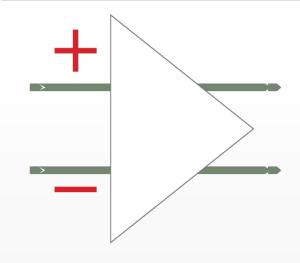
UPGRADED GMT



- NEW! Upgraded Global Master Timing (GMT) clock circuitry
- Even lower jitter performance
- Improved sonics

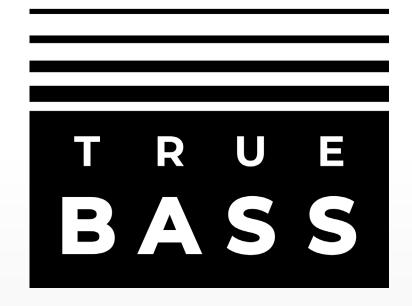
BALANCED ANALOGUE STAGE

Balanced

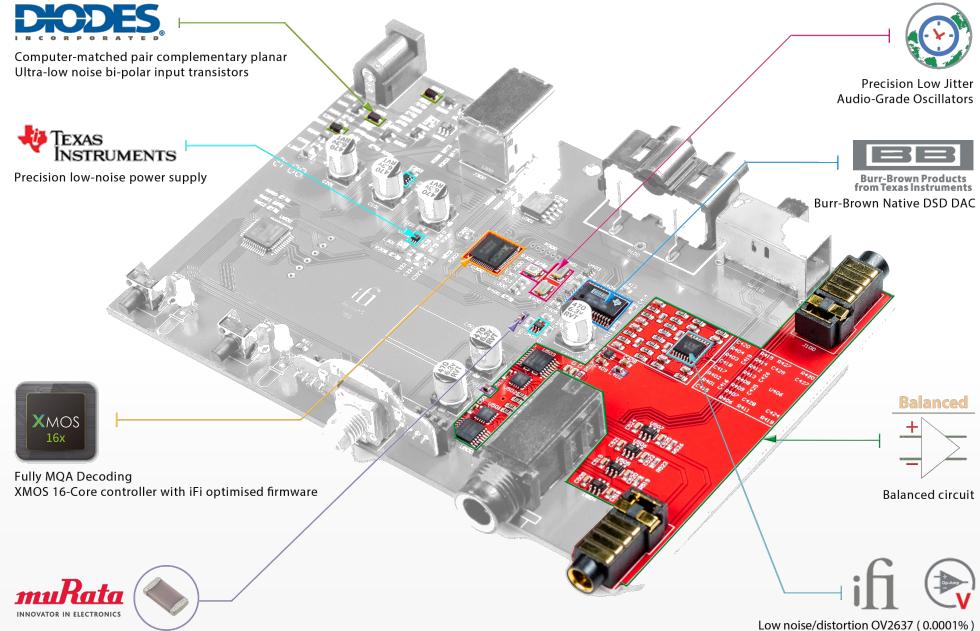


- Balanced analogue circuitry design
- Outstanding components including COG capacitors from TDK
- Plus PowerMatch a choice of output levels for varying headphone sensitivities

TRUEBASS



- Sophisticated, user selectable 'bass boost'
- Subtly enhances low frequencies without muddying the midrange
- Operates in the analogue domain
- Perfect for earphones and open-back headphones lacking deep bass

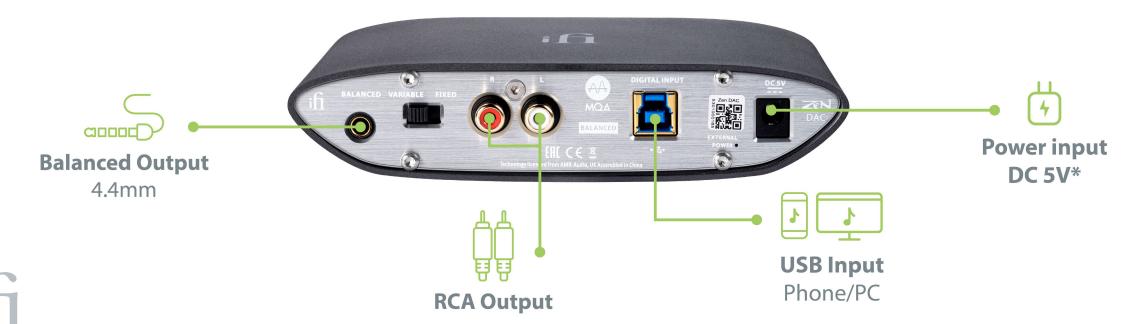




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CONNECTION GUIDE



SPECIFICATIONS

Input	USB3.0 B socket (USB2.0 compatible)
Cowsost.	44.1/48/88.2/96/176.4/192/384kHz PCM
Format	2.8/3.1/5.6/6.2/11.2/12.4MHz DSD 353/384KHz DXD
DAC	Bit-Perfect DSD & DXD DAC by Burr Brown

Line Section:				
Output	Audio RCA (UnBAL)	2.1V fixed	1V / 3.3V max. (variable)	
Output	4.4mm Pentaconn (BAL)	4.2V fixed	2V / 6.2V max. (variable)	
Zout	<= 100 Ohm (UnBAL)	<= 200 Ohm (BAL)		
SNR	< -116dB(A) @ 0dBFS (UnBAL/BAL)			
DNR	> 116dB(A) @ -60dBFS (UnBAL/BAL)			
THD + N	< 0.0015% @ 0dBFS (UnBAL/BAL)			

SPECIFICATIONS

Headphone Section:				
Output	6.3mm (UnBAL)	1V / 3.3V max. (variable)	12 Ohm - 300 Ohm Headphone	
	4.4mm Pentaconn (BAL)	2V / 6.2V max. (variable)	12 Ohm - 600 Ohm Headphone	
Output Power	UnBAL: > 280mW @ 32R, > 36mW @ 300R	BAL: > 380mW @ 50R, > 70mW @	9 600R	
Output impedance	< 1 Ω (UnBAL/BAL)			
THD & N	< 0.005% (125mW @ 32R)			
SNR	> 113dBA (3.3V UnBAL / 6.2V BAL)			
Power Consumption	<1.5W			

Dimensions	117(l) x 100 (w) x 30 (h) mm
Weight	491g (1.08 lbs)

