





Tech Lowdown

All-purpose Digital Audio Hub

The **ZEN One Signature** delivers exceptional sound from every digital device in a home audio environment.

One DAC for universal connectivity

- Bluetooth
- USB
- S/PDIF



Purist Engineering and Signature-grade Circuitry

The **ZEN One Signature** is performancetuned to deliver captivating sound with all forms of media, from hi-res music to movie and video game soundtracks.

- Next gen Bluetooth best sound from every source
- True Native hi-res DAC with powerful 16-core XMOS processor
- Balanced circuit design with Signaturegrade circuit components



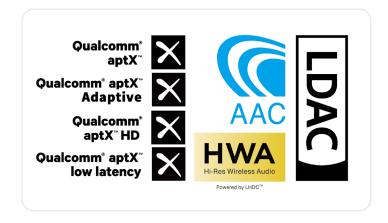
Hi-Res DAC

- Hi-res PCM up to 32-bit/384kHz
- Full native DSD playback
- Full MQA decoding
- Optical & coaxial S/PDIF supports 32-bit/192kHz PCM and MQA



Hi-Res Bluetooth

- Advanced 96kHz Bluetooth 5.1 module with QCC5100 chipset
- Supports HD Bluetooth formats including aptX, aptX HD, aptX Adaptive, aptXLL, LDAC and LHDC/HWA, AAC and SBC codec
- Bluetooth at 96kHz



Display Audio Format LEDs



PCM/HWA(LHDC)



MQA Studio/aptX



AAC



MQA/aptX Adaptive



DSD/LDAC



Original Sample Rate*/aptX HD



SBC

Input Audio Format LEDs







DSD 256 PCM 44.1/48kHz DSD 64/128







PCM 88.2/96/176/192/352/384kHz

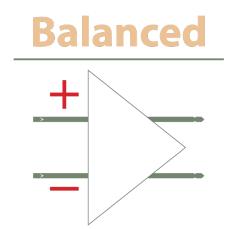
Upgraded GMT circuitry

- Improved Global Master Timing (GMT) clock circuitry
- Customised digital filter
- Eradicates jitter and other forms of digital distortion
- >20dB better performance



Balanced Signature-grade Circuit Design

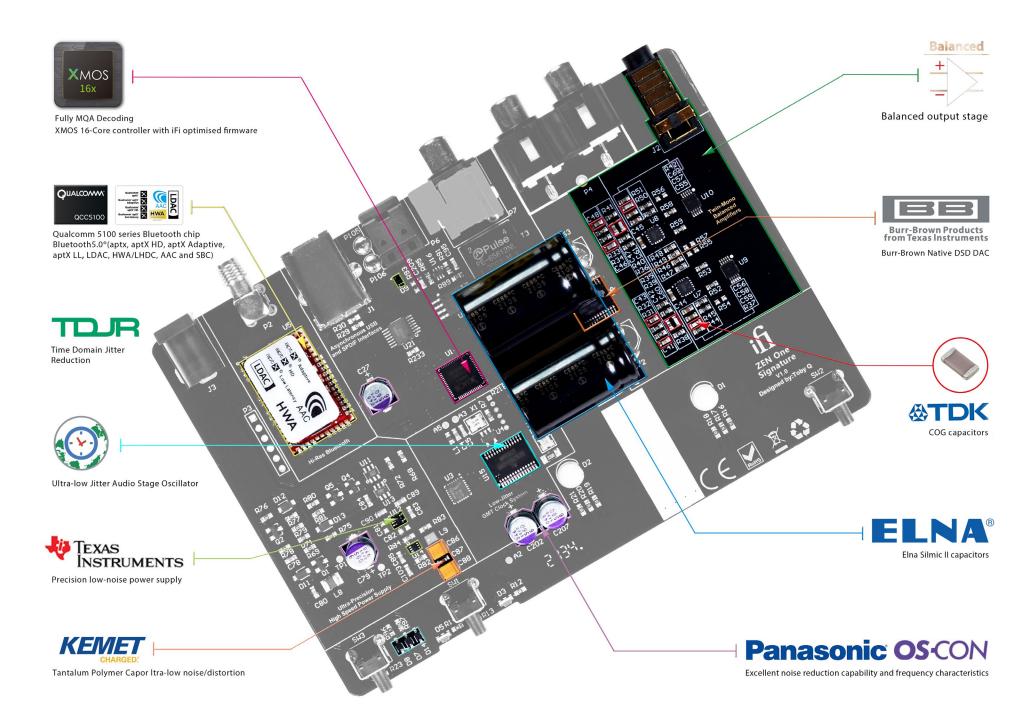
- Balanced analogue circuitry design
- Outstanding components including C0G capacitors from TDL
- Ultra-low distortion and exceptional sonic purity
- SNR: -105dB(A) @ 0dBFS (BAL/UnBAL)
- THD + N: <0.002% @ 0dBFS (BAL/UnBAL)



Connections



Superior Design and Components



Specifications

Power	DC 5V (centre pin +ve)		
Digital inputs	USB3.0 Type B (USB2.0 compatible)		
	S/PDIF (coaxial, TOSLINK optical)		
	Bluetooth 5.1 (aptX, aptX HD, aptX Adaptive, aptX LL, LDAC, LHDC/HWA, AAC and SBC codec)		
Formats	PCM	44.1/48/88.2/96/176.4/192kHz	
	DSD	2.8/3.1/5.6/6.1/11.3/12.3MHz	
	DXD	352.8/384kHz	
	MQA	Decoder	
	Bluetooth	96kHz	
Chipset	Bit-Perfect DSD & DXD DAC by Burr Brown		
	Qualcomm QCC 5100 Series		

A	Coaxial, Audio RCA L/R	
Analogue outputs	4.4 Balanced Lineout	
Frequency Response	5Hz - 80kHz ±3dB	
Outputs	4V / 2V max. (BAL/UnBAL)	
Output Impedance	≤72Ω/36Ω (BAL/UnBAL)	
SNR	-105dB(A) @ 0dBFS (BAL/UnBAL)	
THD + N	<0.002% @ 0dBFS (BAL/UnBAL)	
Power consumption	No Signal ~0.7W/Max Signal ~1W	
Dimensions	158 x 100 x 35 mm	
Dimensions	6.2" x 3.9" x 1.4"	
Notucials	485g	
Net weight	1.1 lbs	

Specifications

Line Section				
Outputs	Balanced	6.7V max. (variable)		
Outputs	UnBAL	3.5V max. (variable)		
Output	Balanced	≤200Ω		
Impedance	UnBAL	≤100Ω		
SNR	Balanced	<110dB(A) @ 0dBFS		
SINK	UnBAL	<110dB(A) @ 0dBFS		
THD+N	Balanced	<0.007% @ 0dBFS		
I NU+N	UnBAL	<0.015% @ 0dBFS		

