

ifi



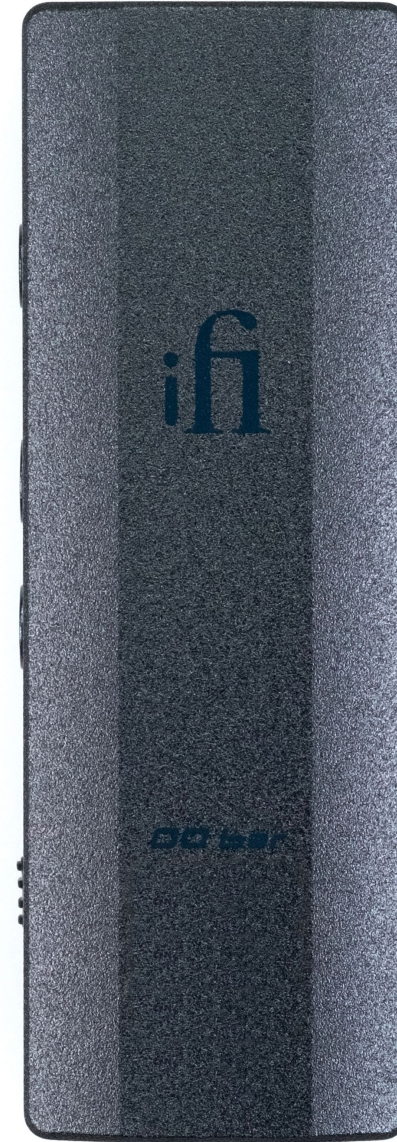
**GObar**

**Tech Lowdown**

# Pocketsize Hi-Res USB DAC, Preamp and Headphone Amp

The **GO bar** is a top-of-the-line USB, ultraportable DAC/headphone amp.

- Works with PCs, laptops, phones, tablets or any other digital device with a USB port
- Most powerful in the world for a headphone amp of this size
- Sounds heavenly with a wider range of headphones than any other ultraportable USB DAC/amplifier



# Most Powerful in the World

The **GO bar** combines sonic purity with exceptional power outputs:

- 475mW into 32 ohms – enough current drive to for 16-ohm headphones
- 7.2V into 600 ohms – sufficient voltage for 600-ohm headphones

**The small, yet mighty GO bar is the world's most powerful headphone amp of its size.**



# Ultra-Res DAC/Amp

- Ultra-res PCM up to 32-bit/384kHz via USB
- Native playback up to DSD256
- 2x DXD
- Full MQA decoding



# Audio Format, Frequency and Sound Effect LEDs



44.1/48kHz

88.2/96kHz

176.4/192kHz

352.8/384kHz

DSD 64/128

DSD 256

**XSPACE**

**XBass+**

# MQA and Digital Filter LED



MQA



MQA Studio



Original Sample Rate  
MQB

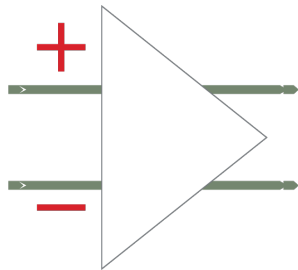
# True Balanced Circuit Design

The **GO bar**'s analogue circuitry boasts a balanced circuit design with twin-channel output stage.

This reduces noise and crosstalk in the signal path by fully separating left and right channels.

**Balanced**

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# Two Powerful Tuning Technologies

## **iEMatch**

iEMatch attenuates power to suit high-sensitivity headphones and IEMs.

This removes background noise and increases the usable volume range.

## **Turbo**

Turbo mode ramps up the gain by 6dB to satisfy more power-hungry headphones.





# Digital Filtering

The **GO bar** features four bespoke digital filters:

## **BP – Bit Perfect**

No digital filtering, no pre or post ringing

## **STD – Standard**

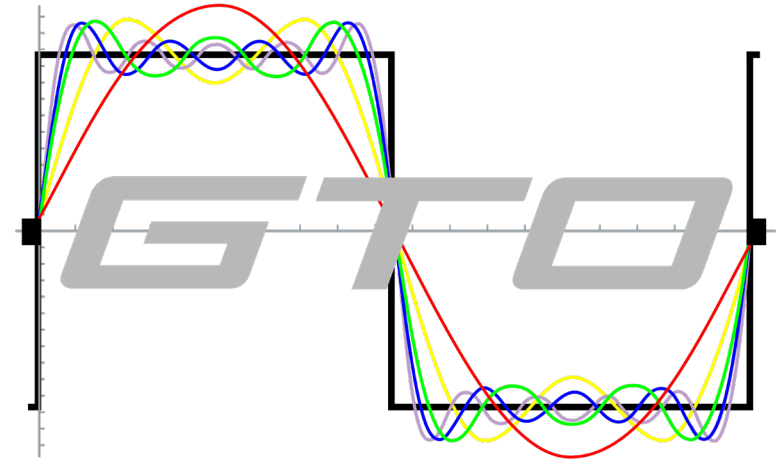
Modest filtering, modest pre and posting ringing

## **MP – Minimum Phase**

Slow roll-off, minimum pre and post ringing

## **GTO – Gibbs Transient Optimised, up-sampled to 384/352kHz**

Minimum filtering, no pre-ringing and minimum post ringing



# Unique Sonic Tailoring

Tailor sound to suit your headphones and personal sonic taste.

**X***Bass*<sup>+</sup>

It 'adds back' lost bass response for more accurate reproduction of the original music.

**XSPACE**

It recreates a holographic sound field. The purely analogue signal processing circuit is designed for listening to headphones as if you were listening to speakers.

# Connections



**USB-C Input**  
PC, Phone, HDD



**Output 4.4mm**  
Balanced



**Output 3.5mm**  
S-Balanced

# Superior Design And Components



Tantalum Polymer Capor ltra-low noise/distortion



COG capacitors  
For audio use with  
extremely low distortion



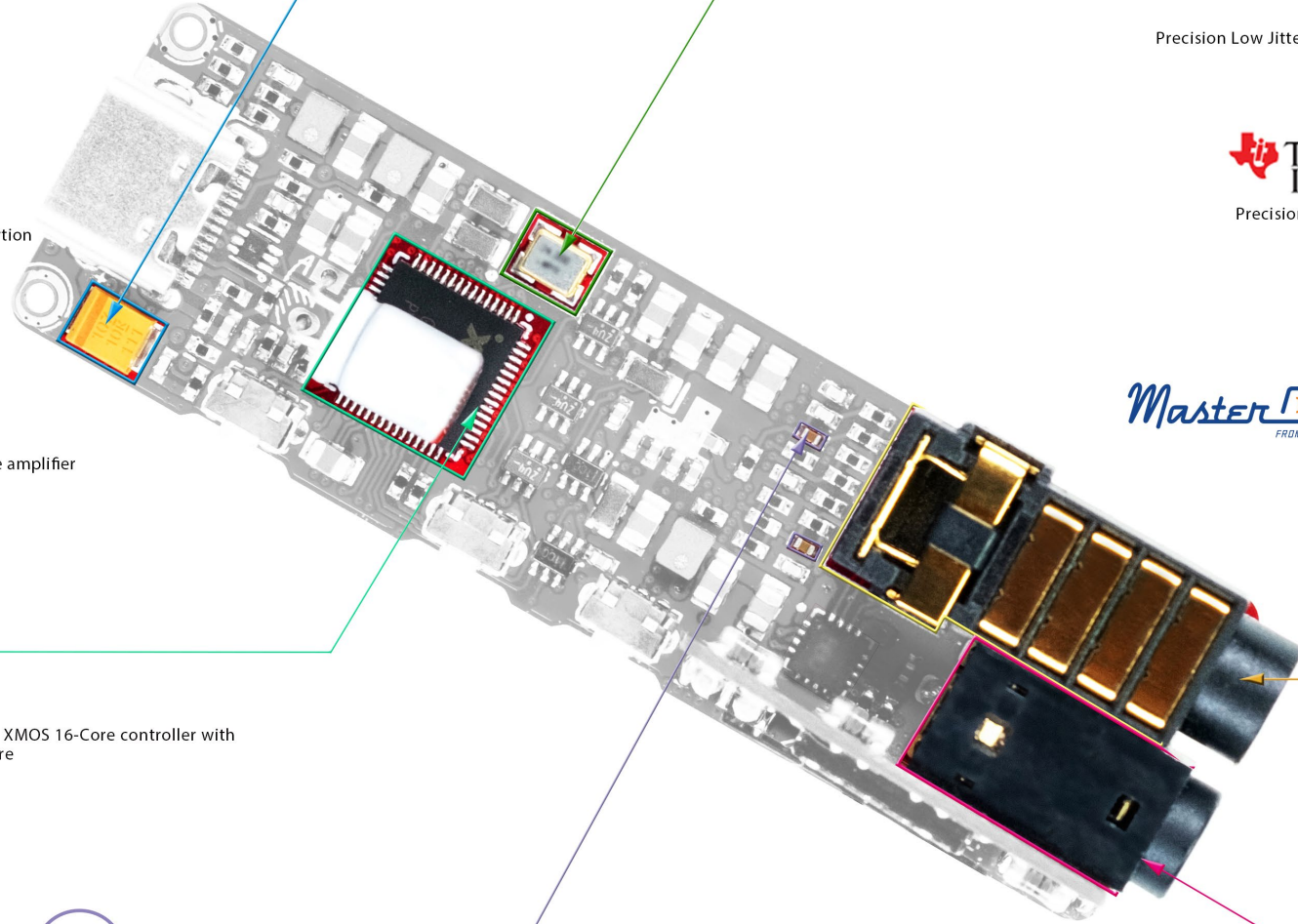
Balanced headphone amplifier



Fully MQA Decoding XMOS 16-Core controller with  
iFi optimised firmware



Murata Low-ESR high Q multilayer capacitor



Precision Low Jitter Audio-Grade Oscillators

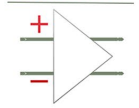


Precision low-noise power supply



130dB, 32-Bit DAC

Balanced



4.4mm Balanced circuit



3.5mm S-Balanced output stage

# Specifications

Input	USB-C	
Formats	PCM	44.1/48/88.2/96/176.4/192/352.8/384 kHz
	DSD	2.8/3.1/5.6/6.1/11.3/12.3MHz
	DXD	352.8/384kHz
	MQA	Full Decoder
DAC	Bit-Perfect DSD & DXD DAC by Cirrus Logic	
Headphone Outputs	BAL 4.4mm	
	UnBAL 3.5mm	
Power Output	Balanced	475mW@32Ω; 7.2V@600Ω
	UnBAL	300mW@32Ω; 3.8V@600Ω

Output Impedance	<1 (BAL/UnBAL)	
SNR	132dBA / 108dBA (BAL/UnBAL)	
DNR	109dB(A) / 108dB(A) (BAL/UnBAL)	
THD + N	Balanced	<0.002% (6.5mW/2.0V @ 600Ω)
	UnBAL	<0.09% (100mW/1.27V @ 16Ω)
Frequency Response	20Hz - 45kHz (-3dB)	
Power	<4W amx	
Dimensions	65 x 22 x 13.2 mm	
	2.6" x 0.9" x 0.5"	
Net weight	28.5g	
	1.0oz	

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audio