



EXPERIENCE THE BEST



THE THX AAA™ AMPLIFIER

Infinitesimally low levels of distortion, noise, and power consumption deliver an audio lover's dream. Introducing the new THX AAA™ headphone amplifier for music, movies, and VR. **Experience the best.**

BENEFITS

- + Achieve world's lowest levels of distortion.
- + Extend your playtime. Shrink your battery. Shrink your product.
- + Maximize output power and SPL.
- + Operate from a single 3.6V Battery - convenient modular solution includes power supply.
- + Guarantee the highest quality audio with THX® Technology.

Every conventional amplifier distorts sound significantly when driving current into a headphone, producing crossover distortion and noise that remind us we're listening to an artificial experience. THX engineers set out to solve this problem, bringing to life a new low-distortion, low-power amplifier topology - THX AAA™.

THX AAA™ uses a patented feed-forward error correction topology to cancel conventional distortion mechanisms. In fact, THX AAA™ works so well that it reduces distortion by 20-100x, all the way to clipping. In our demonstrations, its performance approaches the limits of the world's best audio analyzer.

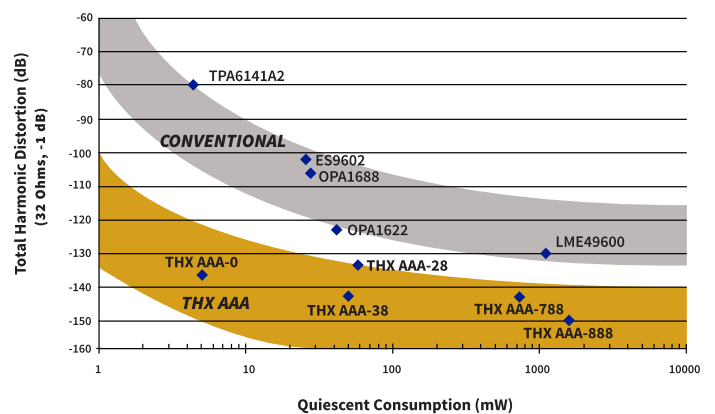
THX AAA™ can be used to achieve perfection. Or it can be used to dramatically reduce bias currents by 10-100x to significantly reduce battery power consumption without raising distortion.

So whether you're designing for a wireless earbud or an audiophile's dream, THX AAA™ can help you improve your audio fidelity, shrink your battery size, extend your playtime, and maximize your output power.

HOW DO I GET IT?

Contact your THX sales representative.

COMPARING THX AAA™ TO CONVENTIONAL HEADPHONE AMPLIFIERS (LOWER IS BETTER)



THX AAA™ MODEL SPECIFICATIONS

		MOBILE/WIRELESS PRODUCTS	AUDIOPHILE MOBILE			AUDIOPHILE HIGH POWER	
Manufacturer		THX	THX			THX	
Series		AAA Catalyst	AAA Frontier			AAA Vanguard	
Model Number		THXAAA-0	THXAAA-28	THXAAA-38	THXAAA-78	THXAAA-788	THXAAA-888
Format		Module/Ref Design	Module/Ref Design			Module/Ref Design	
Description		Stereo Amplifier with Power Supply	Stereo Amplifier with Power Supply		Stereo Amplifier	Stereo Amplifier	Mono Amplifier
Target Module Application		Bluetooth, wireless, noise-canceling headphones or earphones.	Mobile Amp, DAC+amp, or high res media player.			High Power desktop Amp or DAC+amp.	
Key Feature #1		Tiny battery / very long battery life	High fidelity at medium output power		Highest output power for mobile	High fidelity and high output power	Highest fidelity in the world, and extreme output power
Key Feature #2		High Fidelity	Lower cost than AAA-38	Long Battery Life	High fidelity	Lower cost than AAA-788	Ultra-low crosstalk
Circuit Dimensions	mm	14 x 35 x 2	15 x 34 x 2		15 x 28 x 2	20 x 34 x 2	16 x 34 x 2 (x2 pieces for stereo)
Supply Voltage	Vdc	+2.5..5.5	+2.5..5.5		+/- 6V	+/- 12	
Test Condition		3.6 V Li-Ion Battery	3.6 V Li-Ion / 5V		+/- 6V	/- 12 V Supply	
Output Power 16 Ω/ch	mW	63	105 / 135		203	766	2403
Output Power 32 Ω/ch	mW	45	90 / 169		300	1240	1665
Output Power 300 Ω/ch	mW	8	16/35		41	217	
THD (16 Ω, -1 dB 1 kHz)	dB	-133	-127	-137	-130	-135	-140
THD (32 Ω, -1 dB 1 kHz)	dB	-137	-131	-142	-133	-143	-150
THD (300 Ω, -1 dB 1 kHz)	dB	-137	-136	-142	-137		
Output Noise Voltage (A-wt)	uVms	2.6	1.4	1.3	1.4	1.7	1.6
SNR (A-wt)	dB	113	124	125	128	133	134
Stereo Quiescent Power Consumption (3.6V li-ion) (including power supply)	mW	5.0	56.7	49.1	207.5	-	-
Li-ion Battery Size for 12 hrs play time	mAh	32	224	198		-	-
Stereo Quiescent Power Consumption +/- VDC	mW	-	-	-		726	1572

■ Noteworthy
■ Extreme

THE THX AAA™ AMPLIFIER.

CONCEIVED TO DELIGHT.

ENGINEERED TO PERFORM.