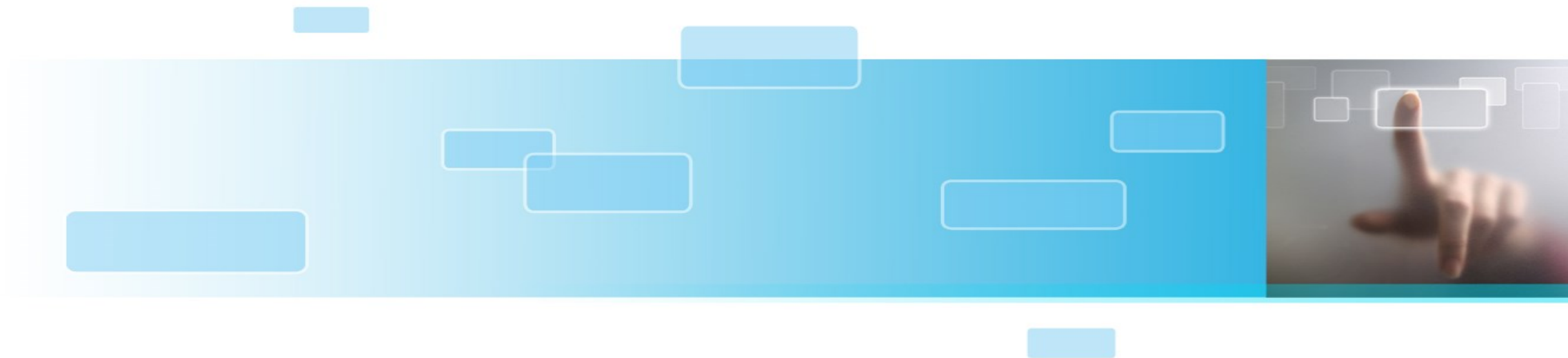


Mobile Audio Amplifier

Comparison Table Version 1.1



Mobile Audio Amplifier Comparison Table

Product Info	Features	TFA9882	TFA9897	TFA9896	TFA9890	TFA9891	TFA9888	TFA9872	TFA9892	TFA9874	TFA9894	TFA9873	
General	Embedded DSP	No	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes	No	
	Package size	1.9mm2 1.27x1.49x0.6	5.6mm2 2.06x2.72x0.5	5.6mm2 2.72x2.06x0.5	10mm2 3.37x2.97x0.4	10.2mm2 3.43x2.98x0.4	16.6mm2 4.37x3.82x0.5	7.7mm2 3.13x2.46x0.5	11.36mm2 3.63x3.13x0.5	6.6mm2 2.62x2.51x0.4	8.9mm2 3.55x2.51x0.4	5.4mm2 2.44x2.2x0.4	
	Package Type	WLCSP-9	WLCSP-30	WLCSP-30	WLCSP-49	WLCSP-49	WLCSP-99	WLCSP-42	WLCSP-49	WLCSP-36	WLCSP-48	WLCSP-30	
	Customer Sample	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Q1	
	Mass Production	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Q3	
Interfaces	Audio input interface	I2S	TDM-I2S	TDM-I2S	TDM-I2S	TDM-I2S or 1 x PDM	TDM-I2S or 1 x PDM	TDM-I2S	TDM-I2S or 1 x PDM	TDM-I2S	TDM-I2S	TDM-I2S	
	AEC Feedback	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Performance	Boost Voltage	No	5.3V	6.1V	9.5V	9.5V	9.7V	9.5V	12V	10V	10V	8V	
	RMS Output Power (8Ω~1%THD)	1.45W	1.65W	2.1W	3.7W	3.7W	2 X 2.4W	5.1W	6.6W	5.6W	5.6W	3.5W	
	RMS Output Power (4Ω~1%THD)	2.7W	-	3.2W	-	-	-	6W	6.7W	6.5W	6.5W	4.7W	
	Speaker Channels	Mono	Mono	Mono	Mono	Mono	Stereo	Mono	Mono	Mono	Mono	Mono	
	Typical Speaker Load (Ω)	4-8	8	4-8-32	4-8	4-8	8-32	4-8-32	4-8-32	4-8-32	4-8-32	4-8-32	
	PSRR (dB)	85	90	90	75	75	80	80	75	80	80	85	
	DR (dB)	103	97	100	97	97	103	100	100	110	110	109	
	MB-DRC	None	None	(On Host)	None	Yes (3-band)	Yes (7-band)	Yes (On Host)	Yes (3-band)	Yes (On Host)	Yes (On Host)	Yes (3-band)	Yes (On Host)
	TDH+N	0.02%	0.03%	0.03%	0.03%	0.03%	0.03%	0.04%	0.04%	0.04%	0.04%	0.05%	
	Noise (uV) / Receiver mode	24	30/20	30/18	66	66	42/11	24/19	16	13	13	9	
Special Features	Speaker-boost Algorithms version	No	1	1.5	1	1.5	1.5	(On Host) 2.0	2	(On Host) 2.0/3.0	2	(On Host) 2.0/3.0	

Speaker Boost (SB) Algorithm Version

Product Information	Features	SB1.0	SB1.5	SB2.0	SB3.0	SB3.5 (in Dev)
Speaker Reliability	Adaptive speaker protection	Yes	Yes	Yes	Yes	Yes
	Speaker diagnostics (based on f0 and Rdc)	Yes	Yes	Yes	Yes	Yes
	Amplifier clipping prevention	Yes	Yes	Yes	Yes	Yes
	Adaptive speaker resonance compensation	Yes	Yes	Yes	Yes	Yes
Audio Quality	10-band speaker eqlizer	Yes	Yes	Yes	Yes	Yes
	phase correction	No	No	Yes	Yes	Yes
	Multi-band Compression and noise gating	No	v1 (3-band)	v2 (6-band)	v3 (6-band)	v3 (6-band)
	Bass enhancement	No	v1 (3-band)	v1	v2	v3(Virtual)
	Channel Configurations	Mono	Mono	Stereo	Stereo	Stereo
	Ultrasound Mixer (96khz with Audio Protection)	No	No	No	Yes	Yes
	Stereo Widening	No	No	No	No	Yes
	Distorsion Correction Management	No	No	No	No	Yes
Power Management	Peak current management	No	No	No	Yes	Yes
	Battery power saver	No	No	No	Yes	Yes

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