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Dolby Laboratories

	Dolby Digital 5.1	Dolby Digital Plus 5.1	Dolby 5.1 + JOC Atmos
Transparent bitrate	640kbit	320kbit	768kbit

Rightmark Audio Analyzer

ASRock B550 Steel Legend (ALC1220)

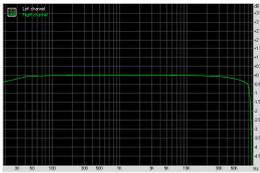
RightMark Audio Analyzer Test report

Testing device	THX2 Realtek ALC1208
Sampling mode	24 bit, 192 kHz
Interface	HW
Testing chain	External loopback (In-out - line-in)
AKH4 position	A, 0.5
20 Hz - 20 kHz filter	OFF
Normalise amplitudes	YES
Level change	-0.2 dB / -0.2 dB
Mask mode	OFF
Calibration offset, Hz	1000
Priority	normal/correc.

Summary

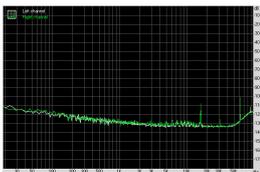
Frequency response (from 40 Hz to 13 kHz), dB	+0.00, -0.08	Excellent
Power level, dB (A)	-90.0	Excellent
Dynamic range, dB (A)	86.0	Excellent
THD, %	0.00033	Very good
THD + noise, dB (A)	-68.5	Good
THD + noise, %	0.025	Good
Stereo crosstalk, dB	-60.7	Excellent
THD at 10 Hz, %	0.027	Good
General performance		Very good

Frequency response



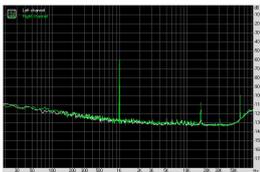
From 20 Hz to 20 kHz, dB	-0.36, +0.00	-0.06, +0.00
From 40 Hz to 13 kHz, dB	-0.04, +0.00	-0.08, +0.00

Noise level



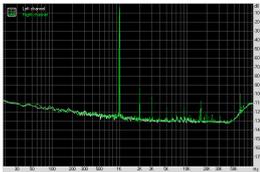
RMS power, dB	Left: -85.0	Right: -85.0
RMS power (A-weighted), dB	-84.4	-84.7
Peak level, dB FS	-72.1	-71.9
DC offset, %	0.0	0.0

Dynamic range



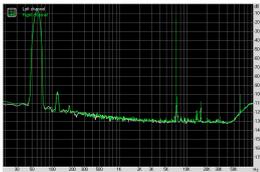
Dynamic range, dB	Left: +85.0	Right: +85.0
Dynamic range (A-weighted), dB	+84.4	+84.8
DC offset, %	-0.00	-0.00

THD + Noise (at -3 dB FS)



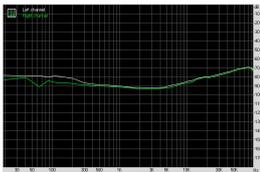
THD, %	Left: 0.00033	Right: 0.00045
THD + noise, %	0.01940	0.01926
THD + noise (A-weighted), %	0.00989	0.00992

Intermodulation distortion



IMD + noise, %	Left: 0.01400	Right: 0.01476
IMD + noise (A-weighted), %	0.00335	0.00362

Stereo crosstalk



Crosstalk at 100 Hz, dB	Left: -78	Right: -84
Crosstalk at 1000 Hz, dB	-69	-90
Crosstalk at 10000 Hz, dB	-64	-65

IMD (except tones)



IMD + noise at 8000 Hz, %	Left: 0.00942	Right: 0.01176
IMD + noise at 10000 Hz, %	0.01713	0.01693
IMD + noise at 15000 Hz, %	0.02717	0.03668

Gigabyte 990X Gaming SLI (ALC1150)

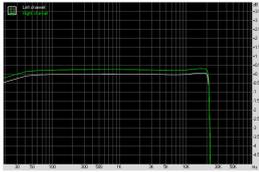
RightMark Audio Analyzer test report

Testing device	YINCE Wave Mapper - GalaxyS999 Gaming B3 (ALC1190)
Sampling rate	24 bit, 192 kHz
Interface	YINCE
Testing chain	External feedback (See out - See in)
RMAA Version	4.8.3
20 Hz - 20 kHz filter	OFF
Normalise amplitude	ON
Level offset	0.2 dB / 0.0 dB
Phase mode	OFF
Calculation length, Hz	1000
Polarity	correct/correct

Summary

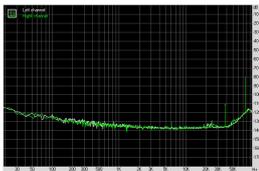
Frequency response (from 40 Hz to 15 kHz), dB	+0.06, -0.11	Very good
Noise level, dB (A)	-104.3	Excellent
Dynamic range, dB (A)	104.2	Excellent
THD, %	0.00274	Very good
THD + noise, dB (A)	-78.8	Average
THD + noise, %	0.023	Good
Stereo crosstalk, dB	-91.1	Excellent
THD at 10 kHz, %	0.027	Good
General performance		Very good

Frequency response



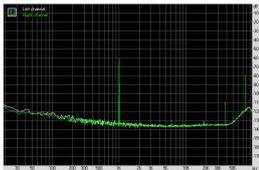
Left	Right
From 20 Hz to 20 kHz, dB	-0.45, -0.39, -0.21, -0.33
From 40 Hz to 15 kHz, dB	-0.11, +0.06, -0.14, -0.31

Noise level



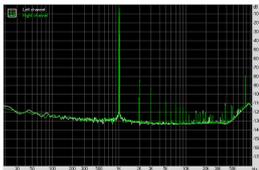
Left	Right
RMS power, dB	-79.1, -79.3
RMS power (A-weighted), dB	-104.1, -104.4
Peak level, dB FS	-67.3, -68.1
DC offset, %	-0.0, -0.0

Dynamic range



Left	Right
Dynamic range, dB	-79.4, -79.0
Dynamic range (A-weighted), dB	-104.0, -104.0
DC offset, %	+0.00, -0.00

THD + Noise (at -3 dB FS)



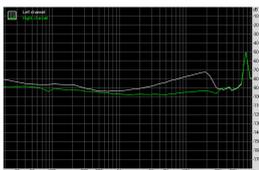
Left	Right
THD, %	0.00272, 0.00274
THD + noise, %	0.02274, 0.02284
THD + noise (A-weighted), %	0.02222, 0.02278

Intermodulation distortion



Left	Right
IMD + noise, %	0.02318, 0.02317
IMD + noise (A-weighted), %	0.02292, 0.02342

Stereo crosstalk



Left	Right
Crosstalk at 100 Hz, dB	-85, -91
Crosstalk at 1000 Hz, dB	-92, -96
Crosstalk at 10000 Hz, dB	-76, -94

IMD (sweep tones)



Left	Right
IMD + noise at 5000 Hz, %	0.02389, 0.02501
IMD + noise at 10000 Hz, %	0.02738, 0.02677
IMD + noise at 15000 Hz, %	0.02297, 0.02444

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