

# 9 – Specifications and performance

## Audio specifications

### Nominal input levels

<b>MIC IN L and R</b> (XLR balanced)	-58 dBu ( <b>TRIM</b> =max) to -14 dBu ( <b>TRIM</b> =min)
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<b>MIC/LINE-GUITAR L and R in MIC/LINE</b> position (1/4" jack, unbalanced)	-40 dBu ( <b>TRIM</b> =max) to +4 dBu ( <b>TRIM</b> =min)
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<b>MIC/LINE-GUITAR R in GUITAR</b> position (1/4" jack, unbalanced)	-51 dBu ( <b>TRIM</b> =max) to -7 dBu ( <b>TRIM</b> =min)
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### Maximum input levels

<b>MIC L and R</b> (XLR balanced)	+2 dBu ( <b>TRIM</b> =min)
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<b>MIC/LINE-GUITAR L and R in MIC/LINE</b> position (1/4" jack, unbalanced)	+20 dBu ( <b>TRIM</b> =min)
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<b>MIC/LINE-GUITAR R in GUITAR</b> position (1/4" jack, unbalanced)	+9 dBu ( <b>TRIM</b> =min)
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### Input impedance

<b>MIC IN L and R</b> (XLR balanced)	2.4 k $\Omega$
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<b>MIC/LINE-GUITAR L and R in MIC/LINE</b> position (1/4" jack, unbalanced)	10 k $\Omega$
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<b>MIC/LINE-GUITAR R in GUITAR</b> position (1/4" jack, unbalanced)	1 M $\Omega$
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### Nominal output level

<b>LINE OUT</b> (RCA unbalanced)	-10 dBV
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### Maximum output level

<b>LINE OUT</b> (RCA unbalanced)	+6 dBV
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### Output impedance

<b>LINE OUT</b> (RCA unbalanced)	100 $\Omega$
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### Maximum output power

<b>PHONES</b> (1/4" stereo jack)	14 mW + 14 mW (32 $\Omega$ )
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## Audio performance

### Signal-to-noise ratio

**LINE IN** (through ADC and DAC) to **LINE OUT** > 96 dB (A-weighted, **TRIM**=min., input impedance at 40 Ω)

**LINE IN** (through direct monitor) to **LINE OUT** > 100 dB (A-weighted, **TRIM**=min., input impedance 40 Ω)

### Total harmonic distortion (THD+N, 22 Hz to 22 kHz)

**LINE IN** (through ADC and DAC) to **LINE OUT** < 0.006% (1 kHz sine +20 dBu input, **TRIM**=min.)

**LINE IN** (through direct monitor) to **LINE OUT** < 0.0.04% (1 kHz sine +20 dBu input, **TRIM**=min.)

## Other characteristics

### Digital audio

A/D Conversion (AK5381) 24-bit/96 kHz, 27.6 samples delay

D/A Conversion (AK4384) 24-bit/96 kHz, 19.3 samples delay

### MIDI

**MIDI IN** and **MIDI OUT** ports (DIN 5-pin) Conform to MIDI standards

### USB

**USB** port (down stream connector) USB 2.0 Format

### Host computer compatibility

Operating system	Windows	Windows XP
	Macintosh	Mac OS 10.3.9 or later
Communication		USB 2.0
Audio/MIDI interface protocols	Windows	ASIO, ASIO2, GSIF2, WDM
	Macintosh	CoreAudio, CoreMIDI (OS X)
Bundled software		Cubase LE (for Windows or Macintosh), Gigastudio 3 LE (Windows only)

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## Physical characteristics

### Dimensions

External dimensions (w x h x d) 147 x 192 x 48 mm

Weight 1 Kg

### Power

Supplied via USB 5V, maximum current 500 mA

## Dimensions

