

Appendix B: Technical Info

DS3232 Specifications

Frequency Response

Mic Input to Digital Output (@ 96 kHz SR)
+0, -0.1 dB, 20 Hz to 24 kHz

Distortion (THD)

Mic Input to Digital Output (@ 96 kHz SR)
THD: < 0.003%, -10 dBu input,
mic pre gain at -3 dB FS output

Dynamic Range

105.0 dB A-weighted (ADC) typical
112.5 dB A-weighted (DAC) typical

Noise Floor

Equivalent Input Noise (E.I.N.), 20 Hz to 20 kHz Bandwidth,
150Ω source impedance
-128.5 dBu @ +45 dB mic pre gain

Residual Output Noise:
Digital Out: < -112.5 dB FS

Converters

24-bit @ 96 kHz

Round Trip Latency

Mic In to Return Out: < 5.0 ms @ 48 kHz SR
< 2.2 ms @ 96 kHz SR

Common Mode Rejection Ratio (CMRR)

Mic In: >75 dB @ 1 kHz, Gain @ maximum

Crosstalk

Adjacent Inputs: < -90 dB @ 1 kHz, +22 dBu on adjacent
input, 150Ω source impedance

Input Gain Control Range

Mic In (PAD out): +15 dB to +70 dB (in 1 dB increments)
Mic In (PAD in): -8 dB to +47 dB (in 1 dB increments)

Phantom Power

+48 VDC

Maximum Input Levels

Mic Input (PAD out): +7 dBu, Gain @ 15 dB
Mic Input (PAD in): +30 dBu, Gain @ -8 dB

Input Impedance

Mic Input (PAD out): 1.5 kΩ, balanced
Mic Input (PAD in): 3.1 kΩ, balanced

Output Impedance

Returns Out: servo-balanced, 51 Ω per side, XLR outputs

AC Power Requirements

Power Consumption: 80 watts
Universal AC Power Supply:
100 VAC - 240 VAC, 50-60 Hz

Physical Dimensions and Weight

Height: 10.2 in/26.0 cm (6 RU)
Width: 19.0 in/48.3 cm
Depth: 9.0 in/23.0 cm
Weight: 20.5 lb/9.3 kg

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DS3232 Dimensions

