

APOGEE

DA-1000E-20 D/A CONVERTER



APOGEE'S DA1000E-20 is a portable, stereo, Digital to Analog Converter that provides a professional reference standard for uncolored reference monitoring of digital audio sources. Applications include open reel and video based recorders for CD mastering, DAT Recorders, Hard Disk Recorders, Digital Audio Workstations, multi-track applications, and CD players. The DA1000E-20 features 20 Bit resolution with unequaled sonic performance and versatility. 12v operation makes it ideal for portable use.

Digital Inputs

Standard interfaces include AES/EBU, SPDIF, Optical, Sony SDIF and SDIF-II.

Front end digital processing is provided by a high speed custom-configured gate array which extracts the maximum performance from the D/A converters.

Converters

8x oversampled digital data drives two 20-bit Digital to Analog converters.

These converters eliminate the usual large transitions around zero, thus providing excellent low level performance in addition to the inherent high level performance.

Special Filters

Award-winning Apogee filter technology is incorporated in this unit to do away with the troublesome high frequency images found in most of today's consumer and professional D/A converters.

Low Jitter Clock

Like its companion the AD-1000, the DA1000E-20 features Apogee's C768 Low Jitter Clock. The C768 references to external sync sources and regenerates the clock, providing an electronic flywheel effect that greatly reduces short term timing irregularities, or "jitter."

Analog Outputs

An internal gold pin matrix provides various analog output formats at gold male XLR output connectors, bypassing the pitfalls of automatic balanced/unbalanced circuits.

DA-1000E Specifications

Quantization—Converter: 20 Bits per sample / 8x oversampling
Quantization—Input: 16 Bits per sample
Frequency Response: 20Hz-10kHz ± 0.025 dB, 10kHz-20kHz $+0.05/-0.2$ dB
THD + N -94dB typically@1kHz
S/N Ratio: Typically -106dB flat, -108.5dB A weighted
Crosstalk: Typically better than 110dB, 20-20kHz
De-Emphasis: 50uSec/15uSec
De-Emphasis Control: Automatic, Override ON, Override Off
De-Emphasis Indication: Amber LED indicated De-emphasis
Input Sampling Rate: Any frequency from 32kHz to 54kHz via all digital inputs
Sampling Rate Indicator: Amber LEDs indicate output sampling rate range for 32kHz, 44kHz, and 48kHz
Internal Recovered Clock Jitter: Typically 30 picoseconds RMS
Nominal DC Power Input: 12VDC@1100mA
Input Voltage Range: +11.0 to +15 Volts DC
Input Dropout Voltage: 10.4 Volts DC
Low Voltage Indicator: Power LED flashes at <11.5 DC
Weight: 1.3Kg (2 lbs 14 oz)
Dimensions: L=27.30 x W=14.12 X H=3.96 cm
Operating Temperature: 0°C to 40°C (32°F to 104°F)

APOGEE

The digital masters.

APOGEE ELECTRONICS CORPORATION

3145 Donald Douglas Loop South, Santa Monica, CA 90405. Tel: 310/915-1000 Fax: 310/391-6262
Email: converters@apogeedigital.com Web: <http://www.apogeedigital.com/>