

Sycos



Up to 96 kHz



AD / SRC / DA



Many clock options



Multi format



Easy to use



Smart **in** Solutions

The Sycos is a high resolution Analog to Digital and Digital to Analog converter.

Its concept originates from the top-range D&R broadcast consoles I/O units.

It is designed to be used in demanding recording and broadcast applications, where the audio converters need to be 24 bit and sample rates up to 96kHz are a necessity.

Modern hard-disk recording systems deliver the kind of impressive performance and track capacity that can measure up to the best studio equipment available.

Nonetheless, the high quality of today's processing options

can't be exploited to full effect when used with standard sound cards, because the A/D converters in these cards easily distort, and because interference generated from the clock frequencies inside the computer housing degrades the signal-to-noise ratio.

The remedy is to use a high-quality converter housed in an external device so that the signal can be patched into the computer / hard disk system without loss or hassle.

The SYCOS Master converter is the answer to convert stereo analog signals into digital, the line input of the SYCOS can be connected directly to the mixing console's output, thereby preserving the sound quality of the analog signals as well as their impressive dynamic range. From the SYCOS's digital outputs, the signal would then be routed to a master recorder or to a digital I/O card. In addition, the SYCOS is equipped with a Word Clock in/output of the type used for professional audio and broadcasting applications.

MAIN FEATURES

- 96k 24bit A/D with 112dB dynamic range and extremely low THD.
- Sample Rate Converter with bit reduction to reduce 24bit recordings to 16 bit for CD masters.
- Record to analog tape.
- 50dB range 32 element stereo signal meter with Vu or Peak display.
- Inputs from AES, SPDIF, Optical, Outputs to Optical, AES, SPDIF.

GENERAL SYSTEM PARAMETERS.

Level specs in dB full scale for digital and dBu for analog data.

0dBu=0.775Vrms

Frame clock: BNC in/out 75Ohm TTL

OVERALL:

Frequency response: 20-20.000 Hz

Crosstalk: less than -90dB

Sampling rate: 32kHz to 96kHz +/- 20ppm (internally synchronised).

Headroom: between 9 and 20dB.

A/D and D/A CONVERTERS.

A/D Texas Instruments 24 bit Delta Sigma, 128x over sampling

Dynamic range: typically 112 dB

THD+Noise: 102 dBfs

Inputs: +/- 20dB adjustable.

D/A Texas Instruments 24 bit .

Dynamic range: typically 117 dB

THD+Noise: 108 dBfs

LINE INPUTS

Input sensitivity: -20dB to.+20dB

Line inp. bal 10kOhm +/- 20dB gain range.

CMRR: Line input max. gain: 50Hz 50dB

DIGITAL INPUTS

AES/EBU (AES3), S/P-DIF, Optical (toslink)

16/18/20/24 bit, 32kHz to 96kHz (built in sample rate converter).

THD+N: -117 dBfs @1kHz, 0dBfs

Dynamic Range: 128 dB.

Input impedance: 110 Ohm (XLR) 75Ohm (cinch)

Clock input: 75Ohm TTL.

DIGITAL OUTPUTS

AES/EBU(AES3), S/P-DIF, Optical (toslink), Coax, active at the same time.

16/24 bit, 32kHz to 96kHz (System clock or sample rate conversion to corresponding input clock).

Output level: 2 to 5 volt

Output impedance: 110 Ohm

Clock output: 75Ohm TTL.

CLOCK

System clock internally 32kHz, 44.1kHz, 48kHz, 64 kHz, 88.2 kHz, 96 kHz, 20ppm.

DIMENSIONS AND WEIGHT

10 kg / 22lbs

Dimensions: 483x250x44mm

