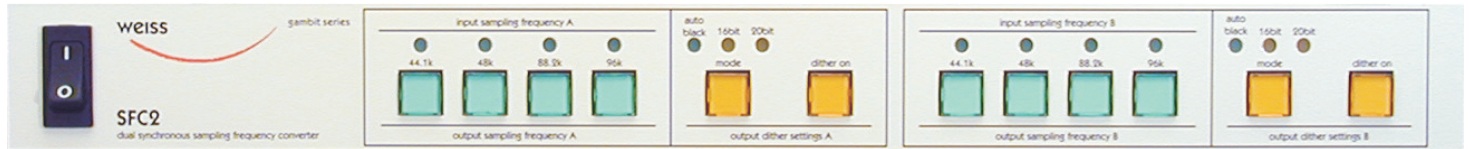


gambit series SFC2

dual synchronous sampling rate converter



The Weiss Gambit Series SFC2

The **SFC2** is a dual synchronous sampling rate converter which converts between any of these sampling rates: 44.1 / 48 / 88.2 and 96kHz.

Synchronous:

Standard sampling frequency converter chips continuously measure the input frequency and then generate the output frequency and the filter specifications accordingly. This results in coefficient "jitter" because the input signal sampling frequency jitter modulates the cutoff frequency of the digital filter. The *SFC2* uses a fixed-ratio scheme where the output is directly derived from the input sampling frequency - therefore no coefficient "jitter", no filter modulation, more transparency.

Dual:

The main function of the *SFC2* will be integrating playback or outboard equipment into an environment that either runs at double- or standard-sampling frequency. To allow this equipment to be positioned anywhere in the processing chain, the *SFC2* features two completely independent two-channel sampling frequency converters to simultaneously down- and up-sample a signal. Alternatively, it can also be used to convert the sample frequency and reduce the wordlength of any two arbitrary audio signals at the same time.

"... I picked up an SFC2 unit to do my up and downsampling across multiple units. I have been very pleased with the results."

Bob Boyd
Ambient Digital
Houston

"I heartily recommend the SFC2."

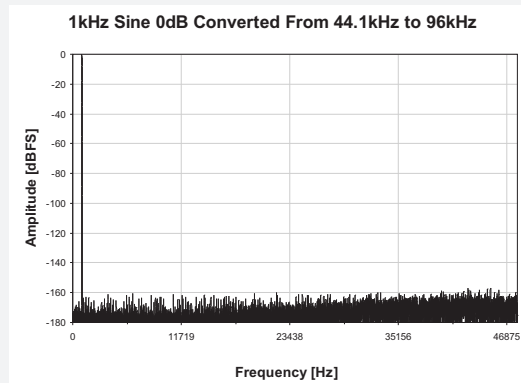
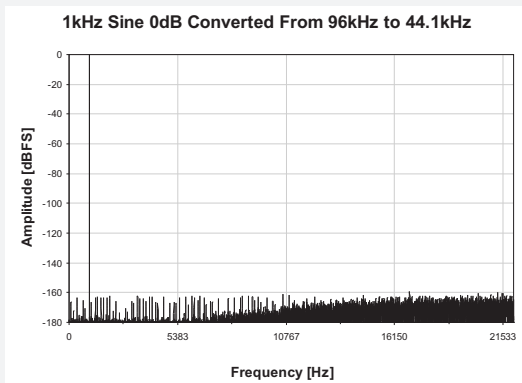
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SFC2

- 24bit single wire high-speed AES/EBU interfaces.
- 24bit output with optional 20 / 16bit wordlength reduction.
- auto-blacking for automatic dither noise removal during programme breaks.
- 40bit floating point / 32bit fixed point processing
- 44.1 / 48 / 88.2 / 96kHz sampling frequencies supported
- standalone IHU 19" rackmount chassis

Spectra showing harmonic distortion level for two conversion examples:



Application examples for the SFC2:

