



# z-3src sample rate converter

the ultimate in asynchronous sample rate conversion



## FEATURES

- Real-time sample rate conversion
- Supports up to 24 bits at 96 kHz
- Low-jitter internal references
- Externally synchronizable via AES11 sync
- Output wordwidth control
- Front-panel control of channel status bits

## APPLICATIONS

- Mastering
- DAT-to-CD transfer
- Varispeed transfer
- Broadcast
- 0.1% rate changes for audio-for-video
- Format conversion
- Wordlength reduction

## SPECIFICATIONS

- AES/EBU, coaxial S/PDIF, and optical inputs and outputs
- 24-, 20-, and 16-bit output modes via TPDF dither
- Handles input and outputs at up to 24 bits between 32 kHz and 96 kHz
- Better than -115 dB THD+N
- Better than 120 dB dynamic range
- Standard rate conversions via internal references, odd rate conversions via external sync
- 1 rack-unit form factor

Ever since we first produced the z-1src back in 1993, Z-Systems has been synonymous with sample rate conversion. We've been making sample rate conversion products for nearly a decade now and we pride ourselves on offering world-class sample rate converters for a reasonable price.

Our approach to sample rate conversion is simple: rather than build an expensive synchronous converter based on a custom DSP solution, we use the finest asynchronous sample rate conversion chips\*. At this time, the best asynchronous converters yield results which are practically indistinguishable from the best synchronous converters. The benefit to the end-user is a much less expensive sample rate converter.

The z-3src elegantly handles your sample rate conversion problems. It can accept inputs between 32 kHz and 96 kHz at up to 24 bits and can output 32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, and 96 kHz referenced to low-jitter internal oscillators. Other output sample rates can be generated by locking z-3src's sync input to an external AES11 sync reference. The z-3src also features an output wordwidth control, which allows you to apply TPDF dither and produce output wordwidths of 16, 20, and 24 bits.

Whether you're doing high-resolution mastering, audio for video, or broadcast, the z-3src is the best asynchronous sample rate converter money can buy. Put our expertise to the test – you won't be disappointed.

*\*Although the same chip sets are available to all manufacturers, there's considerably more to designing a good sample rate converter than merely stuffing chips in a board and hoping for the best. To get the best results, an intimate knowledge of mixed-signal (hybrid analog/digital) design is critical. This is because asynchronous SRC chips are notoriously fussy about the componentry and layout surrounding them.*

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