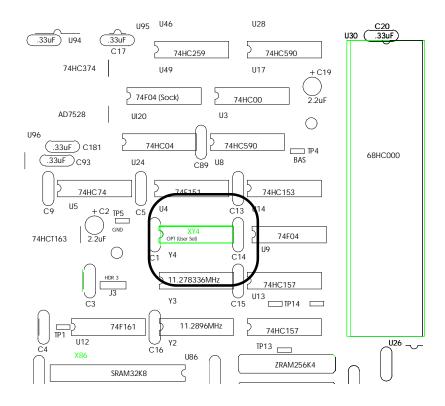


Using a User Supplied Crystal to set the sampling rate on the DSP4000

The DSP4000 has built-in crystal oscillators for 48kHz, 44.1kHz, 44.056kHz sampling rates. In some applications, other sampling rates may be required. In order to make other rates accessible, the DSP4000 has a single location for a User-Supplied crystal oscillator at location Y4 on the motherboard (see drawing below). The new rate must be between 32kHz and 48kHz. The new sample rate can then be used by setting SETUP/AUDIO/sample_rate to "crystal", as described on p24 of the DSP4000 manual.



This oscillator should be a high quality component with a low jitter output at 256 times the desired sample rate. It should be similar to the "Fox" 1100E type used elsewhere on the motherboard. (Fox Electronics, Florida, tel: (813) 693 1554.)

Pin Connections (based on 14 pin DIP socket)

#1 NC #8 output #7 GND #14 5V dc

Note: because Eventide cannot control the use and type of this User Supplied component, we cannot guarantee suitable operation or avoidance of damage and will be able to offer little support beyond this Technote.