

Tracking Audio Delay

The 6040 Tracking Audio Delay module provides both fixed and variable delay to ensure proper synchronization between picture and sound. Ideal for incoming satellite feeds and studio signals, the 6040 provides an elegant solution for lip sync issues. Its 24 bit digital signal processing ensures perfect fidelity.

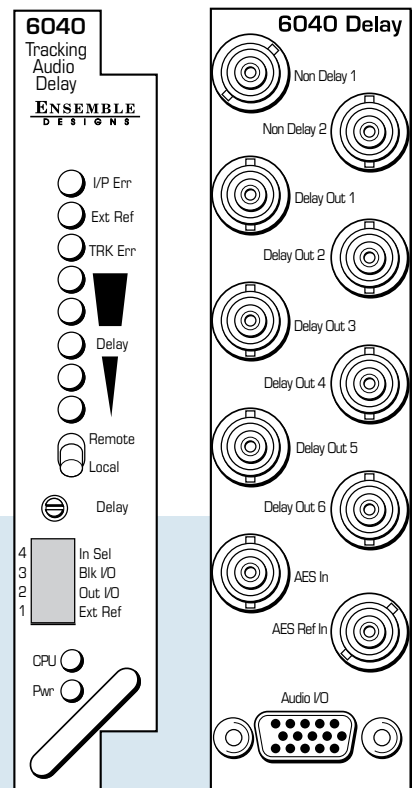
The 6040 can track one or more of the video synchronizer modules in the Avenue system and respond when a frame is dropped or repeated to provide accurate audio tracking. The 6040 has two delay settings: a fixed delay, adjustable up to one second, and dynamic tracking delay that “shrinks” or “stretches” the audio as required.

Avenue’s sophisticated control system makes it easy to tie multiple modules in the system together for automatic tracking. The 6040 module can be tied to one or more of the Avenue video synchronizer modules. Avenue’s Control Panel and Avenue PC provide complete handles over all of the module parameters.

Alternately, consider built-in audio delay in the 5230/6230, 5330/6330, 7500 series, 8500 series, and 7900 series.

Features

- » Adjustable fixed delay plus tracking dynamic delay
- » Track video synchronizer modules
- » Selectable AES or analog input
- » Simultaneous AES and analog outputs
- » Use as AES/analog or analog/AES converter
- » 75 ohm and 110 ohm support
- » 24 bit processing



AES input	1 V P-P, terminated in 75 Ω
AES reference input	1 V P-P, terminated in 75 Ω
AES outputs	1 V P-P, 75 Ω source terminated
Sample rate	30 kHz – 50 kHz
Processing	24 bit
Analog input Z	>15 k Ω, balanced, transformerless
CMRR	>60 dB, 20 Hz – 10 kHz
Input gain range	-10 dBu to +8 dBu for -20 or -18 dBFS output
Analog output Z	30 Ω, balanced, transformerless
Output level	Adjustable from -10 dBu to +8 dBu for -20 or -18 dBFS input
Max output level	+24 dBu (bridging load) +22 dBu (600 Ω load)
Frequency response	+0/-0.2 dB, 20 Hz – 20 kHz
Crosstalk	<-84 dB, 20 Hz – 20 kHz
Dynamic range	>=95 dB
Bulk Delay	0 – 1 second per channel, 10 msec steps
Tracking Delay	Up to 3 modules at one time, maximum delay per module 272 msec
Max Audio Delay	1.12 seconds per channel (module can do 1.82 sec)

