

Timecode Embedder Bypass

Inputs 15999 and 16000 (values 0x3E7E and 0x3E7F) select the Timecode Embedder bypass source. This special source is used to dynamically disable or bypass the timecode embedder function of the DRS Embedder board. Routing this input to the timecode embedder will disable the embedder without forcing the user to change any configuration tables for the board. This source occupies two adjacent channels to facilitate stereo configurations that use an offset value for the second channel.

Test Tone Inputs

The Enterprise DXE has a built-in test tone generator that creates a variety of audio signals that may be routed to any output. The test tones supported by the Enterprise DXE are shown in "Table 8 – Enterprise DXE Test Tones". Each TestTone source occupies two adjacent channels to facilitate stereo configurations that use an offset value for the second channel.

Test Tone Number	User Input Number	Crosspoint Table Value	Signal Description
0	16001/16002	0x3E80/0x3E81	Silence
1	16003/16004	0x3E82/0x3E83	Discrete Tone Sweep
2	16005/16006	0x3E84/0x3E85	Low Tone
3	16007/16008	0x3E86/0x3E87	Mid Tone
4	16009/16010	0x3E88/0x3E89	High Tone
5	16011/16012	0x3E8A/0x3E8B	Mid Tone w/dip
6	16013/16014	0x3E8C/0x3E8D	White Noise A
7	16015/16016	0x3E8E/0x3E8F	White Noise B
8	16017/16018	0x3E90/0x3E91	Pink Noise A
9	16019/16020	0x3E92/0x3E93	Pink Noise B
10-31	16021-16064	0x3E94-0x3EBF	Reserved

Table 8 – Enterprise DXE Test Tones

The Silence test tone sets all samples to zero.

The Discrete Tone Sweep steps through a series of selected tones ranging from 20 Hz to 20 KHz (see "Table 9 – Enterprise DXE Discrete Tone Sweep Frequencies") while dwelling on each tone for a short period of time. Each tone is a sine wave at -20 dBFS.

-	100 Hz	1.00 KHz	10.0 KHz
-	125 Hz	1.25 KHz	12.5 KHz
-	160 Hz	1.60 KHz	16.0 KHz
20 Hz	200 Hz	2.00 KHz	20.0 KHz
25 Hz	250 Hz	2.50 KHz	-
31.5 Hz	315 Hz	3.15 KHz	-
40 Hz	400 Hz	4.00 KHz	-
50 Hz	500 Hz	5.00 KHz	-
63 Hz	630 Hz	6.30 KHz	-
80 Hz	800 Hz	8.00 KHz	-

Table 9 – Enterprise DXE Discrete Tone Sweep Frequencies

The Low Tone is a 100 Hz sine wave at -20 dBFS.

The Mid Tone is a 1 KHz sine wave at -20 dBFS.