

TABLE 2

The combination of gains provided by the two post-amplifiers and the buffer amplifier results in 15 levels of gain. Note that the post-amplifiers, when gain is increasing, are gain-switched one step before the output is selected; when decreasing, three steps.

Gain Level	Post-Amplifiers		Multiplexer Selection	Buffer Amplifier	Gain	Decibels
	Upper	Lower				
0	1	16	Upper	1	1	0
1	1	16	Upper	2	2	6
2	1	16	Upper	4	4	12
3	1	16	Upper	8	8	18
4	1	16	Lower	1	16	24
5	1	16	Lower	2	32	30
6	1	16	Lower	4	64	36
7	256	16	Lower	8	128	42
8	256	16	Upper	1	256	48
9	256	16	Upper	2	512	54
10	256	16	Upper	4	1024	60
11	256	4096	Upper	8	2048	66
12	256	4096	Lower	1	4096	72
13	256	4096	Lower	2	8192	78
14	256	4096	Lower	4	16384	84
15	Invalid code					