

Global i2c commands

Start	ID	Ack	Function	Value	Ack	Stop
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Mute off (The first command must disable the mute function)

Ch 1, -10dB/step, 0dB							
1	1	1	1	1	0	0	0

Mute on

Ch 1, -10dB/step, 0dB							
1	1	1	1	1	0	0	1

Set power off (preparation command to prevent pop noise before power is off)

Ch 1, -10dB/step, 0dB							
1	1	1	1	0	0	0	1

Channel i2c commands

Start	ID	Ack	Function B	Value B	Ack	Function A	Value A	Ack	Stop
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Set gain of 1st channel at 0dB

Ch 1, -10dB/step, 0dB							
1	0	0	0	0	0	0	0

Ch 1, -1dB/step, 0dB							
1	0	0	1	0	0	0	0

Set gain of 3rd channel at 3dB {Odd gain 3dB = 2\*2-1 = 2\*(+2dB)+(-1dB)}

Ch 3, +2dB/step, 4dB							
0	0	0	0	1	0	0	1

Ch 3, -1dB/step, -1dB							
0	0	0	1	0	0	0	1

Set attenuation of 3rd channel at -33dB

Ch 3, -10dB/step, -30dB							
0	1	1	0	0	0	0	0

Ch 3, -1dB/step, -3dB							
0	1	1	1	0	1	1	0

Set attenuation of 5th channel at -6dB

Ch 5, -10dB/step, 0dB							
0	1	1	0	0	0	0	0

Ch 5, -1dB/step, -6dB							
0	1	1	1	0	1	1	0

Functions and Values (Value denoted as n)

0x8n	Ch 1, -10dB or +2dB				
	1	0	0	0	n
0x4n	Ch 2, -10dB or +2dB				
	0	1	0	0	n
0x0n	Ch 3, -10dB or +2dB				
	0	0	0	0	n
0x2n	Ch 4, -10dB or +2dB				
	0	0	1	0	n
0x6n	Ch 5, -10dB or +2dB				
	0	1	1	0	n
0xA n	Ch 6, -10dB or +2dB				
	1	0	1	0	n
0xD n	Ch 1 ... 6, -10dB or +2dB				
	1	1	0	1	n

0x9n	Ch 1, -1dB/step				
	1	0	0	1	n
0x5n	Ch 2, -1dB/step				
	0	1	0	1	n
0x1n	Ch 3, -1dB/step				
	0	0	0	1	n
0x3n	Ch 4, -1dB/step				
	0	0	1	1	n
0x7n	Ch 5, -1dB/step				
	0	1	1	1	n
0xB n	Ch 6, -1dB/step				
	1	0	1	1	n
0xE n	Ch 1 ... 6, -1dB/step				
	1	1	1	0	n

Gain and Attenuation Value

Value B meaning	Value B (n)
0dB	0x0
-10dB	0x1
-20dB	0x2
-30dB	0x3
-40dB	0x4
-50dB	0x5
-60dB	0x6
-70dB	0x7
+2dB	0x8
+4dB	0x9
+6dB	0xA
+8dB	0xB
+10dB	0xC
+12dB	0xD
+14dB	0xE
+16dB	0xF

Value A meaning	Value A (n)
0dB	0x0
-1dB	0x1
-2dB	0x2
-3dB	0x3
-4dB	0x4
-5dB	0x5
-6dB	0x6
-7dB	0x7
-8dB	0x8
-9dB	0x9