Available Controllers of MIDIbox tia V1b BETA

CC #	Hex	Description	Range	Reset
0	00h	Bank change	0-31: bank	0
1 2 3	02h	Modulation Wheel Modulation Wheel Init Value Aftertouch Init Value	0-127: val 0-127: val 0-127: val	0 0 0
4 5 6	05h	Voice 1/2 Velocity Init Value Voice 1 Velocity Init Value Voice 2 Velocity Init Value	0-127: val 	0 0 0
7	07h	Master Volume (00h-7Fh)	0-127: val	127
8 9 10	08h 09h 0Ah	Voice 1/2 Volume Voice 1 Volume Voice 2 Volume	1-127: val see above see above	127 127 127
11	0Bh 	Modulation Wheel Depth negative depth (0–63) inverts the effect	0- 63: neg 64: off	127
12	 0Ch 	 Aftertouch Depth negative depth (0–63) inverts the effect	64-127: pos 0-63: neg 64: off	 127
13	 0Dh 	 Voice 1/2 Velocity Depth negative depth (0-63) inverts the effect	64-127: pos 0- 63: neg 64: off 64-127: pos	 127
14 15	 0Eh 0Fh	 Voice 1 Velocity Depth Voice 2 Velocity Depth		
16	+ 10h 	+	+ 	+ 5
17 18	 11h 12h	1: Disto 6: Noise 2: Engine 7: Lead 3: Square 8: Buzz-L 4: Bass 9: Buzz-H Voice 1 Waveform Voice 2 Waveform	 see above see above	 5 0
19	13h 	Voice 1/2 Mode Bit 0: Gate Stay Active on/off Bit 1: Portamento Constant Glide Time Bit 2: Keyboard Extended on/off Bit 3: Velocity to Amplitude on/off Bit 4: Enveloppe to Amplitude on/off Bit 5: Enveloppe to Pitch on/off Bit 6: Arpeggiator Midi Sync on/off	 	0
20 21	14h 15h	Voice 1 Mode Voice 2 Mode	see above see above	0 0
22	16h 	 Voice 1/2 Transpose 	0- 63: neg 64: off 64-127: pos	64
23 24	17h 18h	Voice 1 Single Transpose Voice 2 Single Transpose	see above see above	64 64
25	 19h 	Voice 1/2 Pitchrange in Number of Notes Voice by PitchBender and Finetune	0: off 1-127: val	2 2
26 27	1Ah 1Bh	Voice 1 Single Pitchrange Voice 2 Single Pitchrange	see above see above	2
28	+ 1Ch 	 Voice 1/2 Portamento Rate	+ 0: off 1-127: val	+ 0
29 30	 1Dh 1Eh	 Voice 1 Portamento Rate Voice 2 Portamento Rate	see above see above	 0 0
31	+ 1Fh 		+ 0: off 1-127: val	+ 0
32 33	 20h 21h	Voice 1 Arpeggiator Rate Voice 2 Arpeggiator Rate	see above see above	 0 0

34	22h	Voice 1/2 Note Delay	0: off 1-127: val	0
35 36		 Voice 1 Single Note Delay Voice 2 Single Note Delay		0 0
38	26h 27h	Voice 1/2 Key Offset Voice 1 Single Key Offset Voice 2 Single Key Offset Note: Inactive if Key Extended On	0-127: val 	24 24 60
40 41 42	29h 2Ah	Voice 1/2 Key Length Voice 1 Single Key Offset Voice 2 Single Key Offset Note: Inactive if Key Extended On	0-31: val 	31 31 31
43	2Bh 	Voice 1/2 Assign Velocity to Controller	0: off 1-127: Ctrl	0
44 45		Voice 1 Assign Velocity to Controller Voice 2 Assign Velocity to Controller	see above see above	0 0
46 47 48	2Eh 	Voice 1/2 Envelope Options Bit 0-1: Envelope Mixing Mode 0= Env + Modulation Matrix 1= Env * Modulation Matrix 2= Env + (Env * Modulation Matrix) 3= Not Used Bit 2: Not Used Bit 3: Envelope Midi Sync on/off Bit 4: Use curve parameter to Attack Bit 5: Use curve parameter to Decay Bit 6: Use curve parameter to Release Voice 1 Envelope Options Voice 2 Envelope Options	see above	0 0 0
49	+	Voice 1/2 Envelope Depth negative depth (0-63) inverts the waveform	0- 63: neg 64: off	64
50 51		 Voice 1 Envelope Depth Voice 2 Envelope Depth	64-127: pos see above see above	64 64
53	 35h	Voice 1/2 Envelope Curve Note: Curve must be enabled separately for Attack/Decay/Release parameter w/ CC#46 Voice 1 Envelope Curve Voice 2 Envelope Curve	0-63: neg 0: lin 64-127: pos see above see above	64 64 64
55 56	- 37h 38h	Voice 1/2 Envelope Attack Voice 1 Envelope Attack Voice 1 Envelope Attack Voice 2 Envelope Attack	0-127: val see above see above	0 0 0
	3Bh	Voice 1/2 Envelope Decay Voice 1 Envelope Decay Voice 1 Envelope Decay Voice 2 Envelope Decay	+	0 0 0
62	3Eh	Voice 1/2 Envelope Sustain Voice 1 Envelope Sustain Voice 2 Envelope Sustain	0-127: val see above see above	0 0 0
64 65 66	41h	Voice 1/2 Envelope Release Voice 1 Envelope Release Voice 2 Envelope Release	0-127: val see above see above	0 0 0
68 69 70 71 72 73 74 75 76 77 78	44h 45h 46h 47h 48h 49h 4Ah 4Bh 4Ch 4Ch 4Dh	- reserved		

81 82 83 84	51h 52h 53h 54h	- reserved - reserved - reserved - reserved		
85	55h		! !	
86	56h	Modulations Midi Sync Bit 0: LF01 Sync on/off Bit 1: LF02 Sync on/off Bit 2: LF03 Sync on/off Bit 3: LF04 Sync on/off Bit 4: ENV1 Sync on/off Bit 5: ENV2 Sync on/off		0
87 88 89	57h 58h 59h	Voice 1/2 assigned MODs for Amplitude Bit 0: LF01 controls Amplitude on/off Bit 1: LF02 controls Amplitude on/off Bit 2: LF03 controls Amplitude on/off Bit 3: LF04 controls Amplitude on/off Bit 4: ENV1 controls Amplitude on/off Bit 5: ENV2 controls Amplitude on/off Example: 11h = 19: LF01 and ENV1 control A. Voice 1 assigned MODs for Amplitude Voice 2 assigned MODs for Amplitude		0 0
90	5Ah 5Ah 	Voice 1/2 assigned MODs for Pitch Bit 0: LF01 controls Pitch on/off Bit 1: LF02 controls Pitch on/off Bit 2: LF03 controls Pitch on/off Bit 3: LF04 controls Pitch on/off Bit 4: ENV1 controls Pitch on/off Bit 5: ENV2 controls Pitch on/off Example: 11h = 19: LF01 and ENV1 control P.		0
91 92 	5Bh 5Ch	Voice 1 assigned MODs for Pitch Voice 2 assigned MODs for Pitch	 	0 0
93	5Dh - - - - - - - - -	LF01 Mode Bit 0: Enable LF0 Bit 1: Sync with assigned note events Bit 2: Sync with all note events Bit 6-4: Waveform 0: Sine 1: Triangle 2: Saw 3: Pulse 4: Random 5: reserved 6: reserved 7: reserved Example: 11h = 17 = Enable & Triangle & Sync LF02 Mode		3
95 96	5Fh 60h	LF03 Mode LF04 Mode	 	
97	61h	LF01 Rate	0: off 1-127: val	0
98 99 100	62h 63h 64h	LF02 Rate LF03 Rate LF04 Rate	see above see above see above	0 0 0
101	 65h 	LF01 Depth negative depth (0–63) inverts the waveform	0- 63: neg 64: off 64-127: pos	64
102 103 104	66h 67h 68h	LF02 Depth LF03 Depth LF04 Depth	see above see above see above	64 64 64
105 106	69h 6Ah	ENV1 Depth ENV2 Depth	see above	64 64
107	6Bh 6Ch	 ENV1 Curve Note: Curve must be enabled separately for Attack/Decay/Release parameter w/ CC#117 ENV2 Curve	0-63: neg 0: lin 64-127: pos see above	64 64

109	6Dh		0-127: val	0
110 j	6Eh	ENV2 Attack	0-127: val	0
111	6Fh	ENV1 Decay	0-127: val	0
112	70h	ENV2 Decay	0-127: val	0
113		ENV1 Sustain	0-127: val	0
114		ENV2 Sustain	0-127: val	0
115		ENV1 Release	0-127: val	0
116	74h	ENV2 Release +	0-127: val 	0
117	75h	Use curve parameter on ENV1/2 Bit 0: ENV1, Attack Bit 1: ENV1, Decay Bit 2: ENV1, Release Bit 4: ENV2, Attack Bit 5: ENV2, Decay Bit 6: ENV2, Release		0
118	76h	-		
119 I	77h	Assign Modulation Wheel to Controller	0: off	0
i			1-127: Ctrl	
120 j	78h	Assign Aftertouch to Controller	0: off	0
			1-127: Ctrl	
121 I	 79h	 - reserved	-+ 	
122	7Ah	- reserved	i i	
123 j	7Bh	- reserved	j j	
124	7Ch	 –	·+	
125 l	 7Dh		-+	 0
	, 5	Bit 0: send MIDI clock		·
j		(works with ext. and int. synchr.)	j j	
126	7Eh		- +	
+ 127	 7Fh	+	-+	0
, !	,	Bit 0: Mono/Poly	127: Poly	0