

MIDI Data Table

Bank Select

Available Bank Select/Program Change

MSB	(HEX)	LSB	(HEX)	Program No.	Type	Memory	Description
0	00	0	00	0 – 127	Normal Voice	GM Voice	
127	7F	0	00	0	Drum Voice	GM Drum	
63	3F	0	00	0 – 127	Performance (Single Part)	Preset 1	Can be used when only specified Part is changed.
		1	01	0 – 127		Preset 2	
		2	02	0 – 127		Preset 3	
		3	03	0 – 127		Preset 4	
		4	04	0 – 127		Preset 5	
		5	05	0 – 127		Preset 6	
		6	06	0 – 127		Preset 7	
		7	07	0 – 127		Preset 8	
		8	08	0 – 127		Preset 9	
		9	09	0 – 127		Preset 10	
		10	0A	0 – 127		Preset 11	
		11	0B	0 – 127		Preset 12	
		12	0C	0 – 127		Preset 13	
		13	0D	0 – 127		Preset 14	
		14	0E	0 – 127		Preset 15	
		15	0F	0 – 127		Preset 16	
		16	10	0 – 127		Preset 17	
		17	11	0 – 127		Preset 18	
		18	12	0 – 127		Preset 19	
		19	13	0 – 127		Preset 20	
		20	14	0 – 127		Preset 21	
		21	15	0 – 127		Preset 22	
		22	16	0 – 127		Preset 23	
		23	17	0 – 127		Preset 24	
		24	18	0 – 127		Preset 25	
		25	19	0 – 127		Preset 26	
		26	1A	0 – 127		Preset 27	
		27	1B	0 – 127		Preset 28	
		28	1C	0 – 127		Preset 29	
		29	1D	0 – 127		Preset 30	
		30	1E	0 – 127		Preset 31	
		31	1F	0 – 127		Preset 32	
		32	20	0 – 127		Preset 33	
		33	21	0 – 127		Preset 34	
		34	22	0 – 127		Preset 35	
		35	23	0 – 127		Preset 36	
		36	24	0 – 127		Preset 37	
		37	25	0 – 127		Preset 38	
		38	26	0 – 127		Preset 39	
		39	27	0 – 127		Preset 40	
64	40	0	00	0 – 127		User 1	
		1	01	0 – 127		User 2	
		2	02	0 – 127		User 3	
		3	03	0 – 127		User 4	
		4	04	0 – 127		User 5	
		5	05	0 – 127		reserved	
		6	06	0 – 127		reserved	
		7	07	0 – 127		reserved	
		8	08	0 – 127		Library 1	
		9	09	0 – 127		Library 2	
		10	0A	0 – 127		Library 3	
		11	0B	0 – 127		Library 4	
		12	0C	0 – 127		Library 5	
		13	0D	0 – 127		Library 6	
		14	0E	0 – 127		Library 7	
		15	0F	0 – 127		Library 8	
		16	10	0 – 127		Library 9	
		17	11	0 – 127		Library 10	
		18	12	0 – 127		Library 11	
		19	13	0 – 127		Library 12	
		20	14	0 – 127		Library 13	
		21	15	0 – 127		Library 14	
		22	16	0 – 127		Library 15	
		23	17	0 – 127		Library 16	
		24	18	0 – 127		Library 17	
		25	19	0 – 127		Library 18	
		26	1A	0 – 127		Library 19	
		27	1B	0 – 127		Library 20	
		28	1C	0 – 127		Library 21	
		29	1D	0 – 127		Library 22	
		30	1E	0 – 127		Library 23	
		31	1F	0 – 127		Library 24	
		32	20	0 – 127		Library 25	
		33	21	0 – 127		Library 26	
		34	22	0 – 127		Library 27	

MSB	(HEX)	LSB	(HEX)	Program No.	Type	Memory	Description
		35	23	0 – 127		Library 28	
		36	24	0 – 127		Library 29	
		37	25	0 – 127		Library 30	
		38	26	0 – 127		Library 31	
		39	27	0 – 127		Library 32	
		40	28	0 – 127		Library 33	
		41	29	0 – 127		Library 34	
		42	2A	0 – 127		Library 35	
		43	2B	0 – 127		Library 36	
		44	2C	0 – 127		Library 37	
		45	2D	0 – 127		Library 38	
		46	2E	0 – 127		Library 39	
		47	2F	0 – 127		Library 40	
		48	30	0 – 127		Library 41	
		49	31	0 – 127		Library 42	
		50	32	0 – 127		Library 43	
		51	33	0 – 127		Library 44	
		52	34	0 – 127		Library 45	
		53	35	0 – 127		Library 46	
		54	36	0 – 127		Library 47	
		55	37	0 – 127		Library 48	
		56	38	0 – 127		Library 49	
		57	39	0 – 127		Library 50	
		58	3A	0 – 127		Library 51	
		59	3B	0 – 127		Library 52	
		60	3C	0 – 127		Library 53	
		61	3D	0 – 127		Library 54	
		62	3E	0 – 127		Library 55	
		63	3F	0 – 127		Library 56	
		64	40	0 – 127		Library 57	
		65	41	0 – 127		Library 58	
		66	42	0 – 127		Library 59	
		67	43	0 – 127		Library 60	
		68	44	0 – 127		Library 61	
		69	45	0 – 127		Library 62	
		70	46	0 – 127		Library 63	
		71	47	0 – 127		Library 64	
		72	48	0 – 127		Library 65	
		73	49	0 – 127		Library 66	
		74	4A	0 – 127		Library 67	
		75	4B	0 – 127		Library 68	
		76	4C	0 – 127		Library 69	
		77	4D	0 – 127		Library 70	
		78	4E	0 – 127		Library 71	
		79	4F	0 – 127		Library 72	
		80	50	0 – 127		Library 73	
		81	51	0 – 127		Library 74	
		82	52	0 – 127		Library 75	
		83	53	0 – 127		Library 76	
		84	54	0 – 127		Library 77	
		85	55	0 – 127		Library 78	
		86	56	0 – 127		Library 79	
		87	57	0 – 127		Library 80	
65	41	0	00	0 – 127	Performance (Multi Part)	Preset 1	Can be used when only all Parts are changed.
		1	01	0 – 127		Preset 2	
		2	02	0 – 127		Preset 3	
		3	03	0 – 127		Preset 4	
		4	04	0 – 127		Preset 5	
		5	05	0 – 127		Preset 6	
		6	06	0 – 127		Preset 7	
		7	07	0 – 127		Preset 8	
		8	08	0 – 127		Preset 9	
		9	09	0 – 127		Preset 10	
		10	0A	0 – 127		Preset 11	
		11	0B	0 – 127		Preset 12	
		12	0C	0 – 127		Preset 13	
		13	0D	0 – 127		Preset 14	
		14	0E	0 – 127		Preset 15	
		15	0F	0 – 127		Preset 16	
		16	10	0 – 127		Preset 17	
		17	11	0 – 127		Preset 18	
		18	12	0 – 127		Preset 19	
		19	13	0 – 127		Preset 20	
		20	14	0 – 127		Preset 21	
		21	15	0 – 127		Preset 22	
		22	16	0 – 127		Preset 23	
		23	17	0 – 127		Preset 24	

MSB	(HEX)	LSB	(HEX)	Program No.	Type	Memory	Description
66	42	24	18	0 – 127		Preset 25	
		25	19	0 – 127		Preset 26	
		26	1A	0 – 127		Preset 27	
		27	1B	0 – 127		Preset 28	
		28	1C	0 – 127		Preset 29	
		29	1D	0 – 127		Preset 30	
		30	1E	0 – 127		Preset 31	
		31	1F	0 – 127		Preset 32	
		32	20	0 – 127		Preset 33	
		33	21	0 – 127		Preset 34	
		34	22	0 – 127		Preset 35	
		35	23	0 – 127		Preset 36	
		36	24	0 – 127		Preset 37	
		37	25	0 – 127		Preset 38	
		38	26	0 – 127		Preset 39	
		39	27	0 – 127		Preset 40	
		0	00	0 – 127		User 1	
		1	01	0 – 127		User 2	
		2	02	0 – 127		User 3	
		3	03	0 – 127		User 4	
		4	04	0 – 127		User 5	
		5	05	0 – 127		reserved	
		6	06	0 – 127		reserved	
		7	07	0 – 127		reserved	
		8	08	0 – 127		Library 1	
		9	09	0 – 127		Library 2	
		10	0A	0 – 127		Library 3	
		11	0B	0 – 127		Library 4	
		12	0C	0 – 127		Library 5	
		13	0D	0 – 127		Library 6	
		14	0E	0 – 127		Library 7	
		15	0F	0 – 127		Library 8	
		16	10	0 – 127		Library 9	
		17	11	0 – 127		Library 10	
		18	12	0 – 127		Library 11	
		19	13	0 – 127		Library 12	
		20	14	0 – 127		Library 13	
		21	15	0 – 127		Library 14	
		22	16	0 – 127		Library 15	
		23	17	0 – 127		Library 16	
		24	18	0 – 127		Library 17	
		25	19	0 – 127		Library 18	
		26	1A	0 – 127		Library 19	
		27	1B	0 – 127		Library 20	
		28	1C	0 – 127		Library 21	
		29	1D	0 – 127		Library 22	
		30	1E	0 – 127		Library 23	
		31	1F	0 – 127		Library 24	
		32	20	0 – 127		Library 25	
		33	21	0 – 127		Library 26	
		34	22	0 – 127		Library 27	
		35	23	0 – 127		Library 28	
		36	24	0 – 127		Library 29	
		37	25	0 – 127		Library 30	
		38	26	0 – 127		Library 31	
		39	27	0 – 127		Library 32	
		40	28	0 – 127		Library 33	
		41	29	0 – 127		Library 34	
		42	2A	0 – 127		Library 35	
		43	2B	0 – 127		Library 36	
		44	2C	0 – 127		Library 37	
		45	2D	0 – 127		Library 38	
		46	2E	0 – 127		Library 39	
		47	2F	0 – 127		Library 40	
		48	30	0 – 127		Library 41	
		49	31	0 – 127		Library 42	
		50	32	0 – 127		Library 43	
		51	33	0 – 127		Library 44	
		52	34	0 – 127		Library 45	
		53	35	0 – 127		Library 46	
		54	36	0 – 127		Library 47	
		55	37	0 – 127		Library 48	
		56	38	0 – 127		Library 49	
		57	39	0 – 127		Library 50	
		58	3A	0 – 127		Library 51	
		59	3B	0 – 127		Library 52	
		60	3C	0 – 127		Library 53	

MSB	(HEX)	LSB	(HEX)	Program No.	Type	Memory	Description
		61	3D	0 – 127		Library 54	
		62	3E	0 – 127		Library 55	
		63	3F	0 – 127		Library 56	
		64	40	0 – 127		Library 57	
		65	41	0 – 127		Library 58	
		66	42	0 – 127		Library 59	
		67	43	0 – 127		Library 60	
		68	44	0 – 127		Library 61	
		69	45	0 – 127		Library 62	
		70	46	0 – 127		Library 63	
		71	47	0 – 127		Library 64	
		72	48	0 – 127		Library 65	
		73	49	0 – 127		Library 66	
		74	4A	0 – 127		Library 67	
		75	4B	0 – 127		Library 68	
		76	4C	0 – 127		Library 69	
		77	4D	0 – 127		Library 70	
		78	4E	0 – 127		Library 71	
		79	4F	0 – 127		Library 72	
		80	50	0 – 127		Library 73	
		81	51	0 – 127		Library 74	
		82	52	0 – 127		Library 75	
		83	53	0 – 127		Library 76	
		84	54	0 – 127		Library 77	
		85	55	0 – 127		Library 78	
		86	56	0 – 127		Library 79	
		87	57	0 – 127		Library 80	

Available Live Set Select/Program Change

MSB	(HEX)	LSB	(HEX)	Program No.	Type	Memory	Description
62	3E	0	00	0 – 15	Live Set Slot	Page 1	Only for the selected Bank
		1	01	0 – 15		Page 2	
		2	02	0 – 15		Page 3	
		3	03	0 – 15		Page 4	
		4	04	0 – 15		Page 5	
		5	05	0 – 15		Page 6	
		6	06	0 – 15		Page 7	
		7	07	0 – 15		Page 8	
		8	08	0 – 15		Page 9	
		9	09	0 – 15		Page 10	
		10	0A	0 – 15		Page 11	
		11	0B	0 – 15		Page 12	
		12	0C	0 – 15		Page 13	
		13	0D	0 – 15		Page 14	
		14	0E	0 – 15		Page 15	
		15	0F	0 – 15		Page 16	

Parameter Base Address

Group Number =7F 1C, Model ID = 0D

Parameter Block	Top Address				Description
	1	2	3	4	
SYSTEM	00	00	00	00	System
	00	00	01	00	Sequencer Setup
	00	00	02	00	Temporary Setup
	00	00	03	00	Remote
	00	01	0n	00	Micro Tuning User Table [n: No. (0...7)]
	00	02	0n	00	Micro Tuning User Table Name [n: No. (0...7)]
	00	00	7F	00	Soundmondo Format Version
CURVE	01	00	nn	00	Curve User Table Name [nn: User Curve No. (0...31)]
	01	01	nn	00	Curve User Table [nn: User Curve No. (0...31)]
LIVE SET	03	00	00	00	Live Set Bank Name
	03	1p	00	00	Live Set Page Name [p: Page No. (0...15)]
	03	2p	0s	00	Live Set Page 1 – 16 Slot Table Name [p: Page No. (0...15), s: Slot No. (0...15)]
	03	3p	0s	00	Live Set Page 1 – 16 Slot Table [p: Page No. (0...15), s: Slot No. (0...15)]
	03	4p	0s	00	Live Set Page 1 – 16 Slot Audio File Path [p: Page No. (0...15), s: Slot No. (0...15)]
	03	5p	0s	00	Live Set Page 1 – 16 Slot Identifier [p: Page No. (0...15), s: Slot No. (0...15)]
BULK CONTROL	04	00	00	00	Header
	05	00	00	00	Footer
PERFORMANCE COMMON	06	00	00	00	Performance Name
	06	00	01	00	Performance Common 1byte param
	06	00	02	00	Performance Common 2byte param
	06	00	03	00	Performance Common Controller
	06	00	04	00	Insertion A for A/D
	06	00	05	00	Insertion B for A/D
	06	00	06	00	Arpeggio Common
	06	00	07	00	Reverb
	06	00	08	00	Variation
	06	00	09	00	VCM Rotary Speaker
	06	00	0A	00	Master EQ
	06	00	0B	00	Master Effect
	06	00	0C	00	Motion Seq Common Settings
	06	00	0D	00	Super Knob Settings
	06	00	0E	00	Audio In Parts (A/D)
	06	00	0F	00	Audio In Parts (USB)
	06	00	10	00	FM-X Smart Morph Data (File Dump)
	06	00	11	00	FM-X Smart Morph PNG Data (File Dump)
	06	00	12	00	Super Knob Lane Settings
	06	00	20	00	AN-X Smart Morph Data (File Dump)
	06	00	21	00	AN-X Smart Morph PNG Data (File Dump)
	06	01		0m	Super Knob Sequence [m: Motion Sequence No. (0...7)]
	06	02	0c	00	Scene1 – 8 Common 1byte [c: Scene No. (0...7)]
	06	03	0c	00	Scene1 – 8 Common 2byte [c: Scene No. (0...7)]
	06	04	0k	00	Assignable Knob Name [k: Knob No. (0...7)]
	06	05	bb	00	Common/AD Controller Box 1 – 32 [bb: Controller Box No. (0...31)]
	06	06	L0	00	Motion Seq AD Part Lane Settings 1byte [L: Lane No. (0...3)]
	06	07	L0	00	Motion Seq AD Part Lane Settings 2byte [L: Lane No. (0...3)]
	06	08	Lm	00	Motion Seq AD Part Lane Sequence [L: Lane No. (0...3), m: MotionSeq No. (0...7)]
	06	09	00	00	Performance Flag
PERFORMANCE PART	1p	00	00	00	Performance Part Name [p: Part No. (0...15)]
	1p	00	01	00	Performance Part 1byte [p: Part No. (0...15)]
	1p	00	02	00	Performance Part 2byte [p: Part No. (0...15)]
	1p	00	03	00	Performance Part 2byte Pitch/Effect [p: Part No. (0...15)]
	1p	00	04	00	Insertion A [p: Part No. (0...15)]
	1p	00	05	00	Insertion B [p: Part No. (0...15)]
	1p	00	06	00	Arpeggio Part [p: Part No. (0...15)]
	1p	00	07	00	LFO [p: Part No. (0...15)]
	1p	00	08	00	Zone Setting [p: Part No. (0...15)]
	1p	00	09	00	Key Controller Box
	1p	03	0c	00	Scene Part [c: Scene No. (0...7), p: Part No. (0...15)]
	1p	04	0k	00	Assignable Knob Name [p: Part No. (0...15), k: Knob No. (0...7)]
	1p	05	bb	00	Controller 1 – 32 [p: Part No. (0...15), bb: Controller Box No. (0...32)]
	1p	06	L0	00	Motion Seq Part/Lane Settings 1byte [L: Lane No. (0...3), p: Part No. (0...15)]
	1p	07	L0	00	Motion Seq Part/Lane Settings 2byte [L: Lane No. (0...3), p: Part No. (0...15)]

Parameter Block	Top Address				Description
	1	2	3	4	
PERFORMANCE PART	1p	08	Lm	00	Motion Seq Lane Sequence [L: Lane No. (0...3), m: MotionSeq No. (0...7), p: Part No. (0...15)]
NORMAL PART ELEMENT	2p	00	ee	00	Element 1byte [p: Part No. (0...15), ee: Element No. (0...127)]
	2p	01	ee	00	Oscillator [p: Part No. (0...15), ee: Element No. (0...127)]
	2p	02	ee	00	Amplitude [p: Part No. (0...15), ee: Element No. (0...127)]
	2p	03	ee	00	Pitch [p: Part No. (0...15), ee: Element No. (0...127)]
	2p	04	ee	00	Filter + EQ + LFO [p: Part No. (0...15), ee: Element No. (0...127)]
DRUM PART KEY	2p	10	kk	00	Key [kk: Key No. (0...72), p: Part No. (0...15)]
FM-X PART	3p	00	00	00	Common [p: Part No. (0...15)]
	3p	00	01	00	Filter [p: Part No. (0...15)]
	3p	01	0o	00	Controller Box Switch [o: Operator No. (0...7), p: Part No. (0...15)]
	3p	02	0o	00	Operator [o: Operator No. (0...7), p: Part No. (0...15)]
AN-X PART	4p	00	00	00	common [p: Part No. (0...15)]
	4p	01	0o	00	Oscillator Controller Box Switch [p: Part No. (0...15), o: Oscillator No. (0...2)]
	4p	02	0o	00	Oscillator [p: Part No. (0...15), o: Oscillator No. (0...2)]
	4p	03	0f	00	Filter Controller Box Switch [p: Part No. (0...15), f: Filter No. (0...1)]
	4p	04	0f	00	Filter [p: Part No. (0...15), f: Filter No. (0...1)]
	4p	05	00	00	Wave Folder [p: Part No. (0...15)]

Bulk Dump Block

“Top Address” indicates the top address of each block designated by the bulk dump operation.
“Byte Count” indicates the data size contained in each block designated by the bulk dump operation.
The Block from the Bulk Header to the Bulk Footer of the PERFORMANCE can be received regardless of their order.
They can be received even if all of them are not transmitted. However, they cannot be received if an irrelevant Block is included.
To execute 1 Performance bulk dump request, designate its corresponding Bulk Header address.
For information about “ll,”mm” and “nn” shown in the following list, refer to the MIDI
PARAMETER CHANGE TABLE (BULK CONTROL).

Group Number =7F 1C, Model ID = 0D

Parameter Block	Description	Byte Count		Top Address			
		Dec	Hex	1	2	3	4
SYSTEM	System	70	0046	00	00	00	00
	Sequencer Setup	22	0016	00	00	01	00
	Remote	112	0070	00	00	03	00
MICRO TUNING	Micro Tuning User Table [n: No. (0...7)]	24	0018	00	01	0n	00
MICRO TUNING NAME	Micro Tuning User Table Name [n: No. (0...7)]	20	0014	00	02	0n	00

CURVE	Bulk Header	0	0000	04	05	00	00
	Curve User Table Name [nn: User Curve No. (0...31)]	20	0014	01	00	nn	00
	Curve User Table [nn: User Curve No. (0...31)]	34	0022	01	01	nn	00
	Bulk Footer	0	0000	05	05	00	00

LIVE SET EDIT BUFFER	Bulk Header	0	0000	04	06	00	00
	Live Set Bank Name	20	0014	03	00	00	00
	Live Set Page Name [p: Page No. (0...15)]	20	0014	03	1p	00	00
	Live Set Page 1 – 16 Slot Table Name [p: Page No. (0...15), s: Slot No. (0...15)]	18	0012	03	2p	0s	00
	Live Set Page 1 – 16 Slot Table [p: Page No. (0...15), s: Slot No. (0...15)]	18	0012	03	3p	0s	00
	Live Set Page 1 – 16 Slot Audio File Path [p: Page No. (0...15), s: Slot No. (0...15)]	256	0100	03	4p	0s	00
	Live Set Page 1 – 16 Slot Identifier [p: Page No. (0...15), s: Slot No. (0...15)]	32	0020	03	5p	0s	00
	Bulk Footer	0	0000	05	06	00	00

LIVE SET EDIT BUFFER PAGE	Bulk Header	0	0000	04	06	10	0n
	Live Set Page Name	20	0014	03	10	00	00
	Live Set Page 1 – 16 Slot Table Name [s: Slot No. (0...15)]	18	0012	03	20	0s	00
	Live Set Page 1 – 16 Slot Table [s: Slot No. (0...15)]	18	0012	03	30	0s	00
	Live Set Page 1 – 16 Slot Audio File Path [p: Page No. (0...15), s: Slot No. (0...15)]	256	0100	03	4p	0s	00
	Live Set Page 1 – 16 Slot Identifier [p: Page No. (0...15), s: Slot No. (0...15)]	32	0020	03	5p	0s	00
	Bulk Footer	0	0000	05	06	10	0n

LIVE SET USER BANK	Bulk Header	0	0000	04	07	0b	00
	Live Set Bank Name	20	0014	03	00	00	00
	Live Set Page Name [p: Page No. (0...15)]	20	0014	03	1p	00	00
	Live Set Page 1 – 16 Slot Table Name [p: Page No. (0...15), s: Slot No. (0...15)]	18	0012	03	2p	0s	00
	Live Set Page 1 – 16 Slot Table [p: Page No. (0...15), s: Slot No. (0...15)]	18	0012	03	3p	0s	00
	Live Set Page 1 – 16 Slot Audio File Path [p: Page No. (0...15), s: Slot No. (0...15)]	256	0100	03	4p	0s	00
	Live Set Page 1 – 16 Slot Identifier [p: Page No. (0...15), s: Slot No. (0...15)]	32	0020	03	5p	0s	00
	Bulk Footer	0	0000	05	07	0b	00

Parameter Block	Description	Byte Count		Top Address			
		Dec	Hex	1	2	3	4

LIVE SET USER BANK PAGE	Bulk Header	0	0000	04	07	1b	0p
	Live Set Page Name	20	0014	03	10	00	00
	Live Set Page 1 – 16 Slot Table Name [s: Slot No. (0...15)]	18	0012	03	20	0s	00
	Live Set Page 1 – 16 Slot Table [s: Slot No. (0...15)]	18	0012	03	30	0s	00
	Live Set Page 1 – 16 Slot Audio File Path [p: Page No. (0...15), s: Slot No. (0...15)]	256	0100	03	4p	0s	00
	Live Set Page 1 – 16 Slot Identifier [p: Page No. (0...15), s: Slot No. (0...15)]	32	0020	03	5p	0s	00
	Bulk Footer	0	0000	05	07	1b	0p

LIVE SET LIBRARY BANK	Bulk Header	0	0000	04	08	0b	00
	Live Set Bank Name	20	0014	03	00	00	00
	Live Set Page Name [p: Page No. (0...15)]	20	0014	03	1p	00	00
	Live Set Page 1 – 16 Slot Table Name [p: Page No. (0...15), s: Slot No. (0...15)]	18	0012	03	2p	0s	00
	Live Set Page 1 – 16 Slot Table [p: Page No. (0...15), s: Slot No. (0...15)]	18	0012	03	3p	0s	00
	Live Set Page 1 – 16 Slot Audio File Path [p: Page No. (0...15), s: Slot No. (0...15)]	256	0100	03	4p	0s	00
	Live Set Page 1 – 16 Slot Identifier [p: Page No. (0...15), s: Slot No. (0...15)]	32	0020	03	5p	0s	00
	Bulk Footer	0	0000	05	08	0b	00

LIVE SET LIBRARY BANK PAGE	Bulk Header	0	0000	04	08	1b	0p
	Live Set Page Name	20	0014	03	10	00	00
	Live Set Page 1 – 16 Slot Table Name [s: Slot No. (0...15)]	18	0012	03	20	0s	00
	Live Set Page 1 – 16 Slot Table [s: Slot No. (0...15)]	18	0012	03	30	0s	00
	Live Set Page 1 – 16 Slot Audio File Path [p: Page No. (0...15), s: Slot No. (0...15)]	256	0100	03	4p	0s	00
	Live Set Page 1 – 16 Slot Identifier [p: Page No. (0...15), s: Slot No. (0...15)]	32	0020	03	5p	0s	00
	Bulk Footer	0	0000	05	08	1b	0p

PERFORMANCE	Bulk Header	0	0000	04	ll	m	nn
	Soundmondo Format Version	6	0006	00	00	7F	00
PERFORMANCE COMMON	Performance Name	20	0014	06	00	00	00
	Performance Common 1byte param	29	001D	06	00	01	00
	Performance Common 2byte param	84	0054	06	00	02	00
	Performance Common Controller	84	0054	06	00	03	00
	Insertion A for A/D	52	0034	06	00	04	00
	Insertion B for A/D	52	0034	06	00	05	00
	Arpeggio Common	14	000E	06	00	06	00
	Reverb	52	0034	06	00	07	00
	Variation	52	0034	06	00	08	00
	VCM Rotary Speaker	68	0044	06	00	09	00
	Master EQ	34	0022	06	00	0A	00
	Master Effect	52	0034	06	00	0B	00
	Motion Seq Common Settings	12	000C	06	00	0C	00
	Super Knob Settings	90	005A	06	00	0D	00
	Audio In Parts (A/D)	42	002A	06	00	0E	00
	Audio In Parts (USB)	14	000E	06	00	0F	00
	FM-X Smart Morph Data (File Dump)	3004	0BBC	06	00	10	00
	FM-X Smart Morph PNG Data (File Dump)	3000	0BB8	06	00	11	00
	Super Knob Lane Settings	20	0014	06	00	12	00
	AN-X Smart Morph Data (File Dump)	3004	0BBC	06	00	20	00
	AN-X Smart Morph PNG Data (File Dump)	3000	0BB8	06	00	21	00
	Super Knob Sequence [m: Motion Sequence No. (0...7)]	102	0066	06	01	0m	00
	Scene1 – 8 Common 1byte [c: Scene No. (0...7)]	18	0012	06	02	0c	00
	Scene1 – 8 Common 2byte [c: Scene No. (0...7)]	44	002C	06	03	0c	00

Parameter Block	Description	Byte Count		Top Address			
		Dec	Hex	1	2	3	4
PERFORMANCE COMMON	Assignable Knob Name [k: Knob No. (0...7)]	16	0010	06	04	0k	00
	Common/AD Controller Box 1 – 32 [bb: Controller Box No. (0...31)]	16	0010	06	05	bb	00
	Motion Seq AD Part Lane Settings 1byte [L: Lane No. (0...3)]	4	0004	06	06	L0	00
	Motion Seq AD Part Lane Settings 2byte [L: Lane No. (0...3)]	20	0014	06	07	L0	00
	Motion Seq AD Part Lane Sequence [L: Lane No. (0...3), m: MotionSeq No. (0...7)]	102	0066	06	08	Lm	00
	Performance Flag	8	0008	06	09	00	00
PERFORMANCE PART	Performance Part Name [p: Part No. (0...15)]	20	0014	1p	00	00	00
	Performance Part 1byte [p: Part No. (0...15)]	81	0051	1p	00	01	00
	Performance Part 2byte [p: Part No. (0...15)]	94	005E	1p	00	02	00
	Performance Part 2byte Pitch/Effect [p: Part No. (0...15)]	62	003E	1p	00	03	00
	Insertion A [p: Part No. (0...15)]	52	0034	1p	00	04	00
	Insertion B [p: Part No. (0...15)]	52	0034	1p	00	05	00
	Arpeggio Part [p: Part No. (0...15)]	84	0054	1p	00	06	00
	LFO [p: Part No. (0...15)]	68	0044	1p	00	07	00
	Zone Setting [p: Part No. (0...15)]	26	001A	1p	00	08	00
	Key Controller Box	64	0040	1p	00	09	00
	Scene Part [c: Scene No. (0...7), p: Part No. (0...15)]	64	0040	1p	03	0c	00
	Assignable Knob Name [p: Part No. (0...15), k: Knob No. (0...7)]	16	0010	1p	04	0k	00
	Controller 1 – 32 [p: Part No. (0...15), bb: Controller Box No. (0...32)]	18	0012	1p	05	bb	00
	Motion Seq Part/Lane Settings 1byte [L: Lane No. (0...3), p: Part No. (0...15)]	4	0004	1p	06	L0	00
	Motion Seq Part/Lane Settings 2byte [L: Lane No. (0...3), p: Part No. (0...15)]	20	0014	1p	07	L0	00
	Motion Seq Lane Sequence [L: Lane No. (0...3), m: MotionSeq No. (0...7), p: Part No. (0...15)]	102	0066	1p	08	Lm	00
	:			Max 16 Parts			
	NORMAL PART ELEMENT	Element 1byte [p: Part No. (0...15), ee: Element No. (0...127)]	36	0024	2p	00	ee 00
		Oscillator [p: Part No. (0...15), ee: Element No. (0...127)]	40	0028	2p	01	ee 00
		Amplitude [p: Part No. (0...15), ee: Element No. (0...127)]	54	0036	2p	02	ee 00
		Pitch [p: Part No. (0...15), ee: Element No. (0...127)]	48	0030	2p	03	ee 00
		Filter + EQ + LFO [p: Part No. (0...15), ee: Element No. (0...127)]	106	006A	2p	04	ee 00
	:	128Blocks	Max 16 Parts				
	DRUM PART KEY	Key [kk: Key No. (0...72), p: Part No. (0...15)]	64	0040	2p	10	kk 00
		:	73 Blocks	Max 16 Parts			
	FM-X PART	Common [p: Part No. (0...15)]	82	0052	3p	00	00 00
		Filter [p: Part No. (0...15)]	70	0046	3p	00	01 00
		Controller Box Switch [o: Operator No. (0...7), p: Part No. (0...15)]	36	0024	3p	01	0o 00
		Operator [o: Operator No. (0...7), p: Part No. (0...15)]	70	0046	3p	02	0o 00
		:	8 Blocks	Max 16 Parts			
	AN-X PART	common [p: Part No. (0...15)]	110	006E	4p	00	00 00
		Oscillator Controller Box Switch [p: Part No. (0...15), o: Oscillator No. (0...2)]	36	0024	4p	01	0o 00
		Oscillator [p: Part No. (0...15), o: Oscillator No. (0...2)]	72	0048	4p	02	0o 00
		Filter Controller Box Switch [p: Part No. (0...15), f: Filter No. (0...1)]	36	0024	4p	03	0f 00
		Filter [p: Part No. (0...15), f: Filter No. (0...1)]	24	0018	4p	04	0f 00
		Wave Folder [p: Part No. (0...15)]	34	0022	4p	05	00 00
	Bulk Footer	0	00	05	ll	m	nn

Parameter Block	Description	Byte Count		Top Address			
		Dec	Hex	1	2	3	4
PERFORMANCE PART	Bulk Header	0	0000	04	04	01	nn
PERFORMANCE PART	Performance Part Name [p: Part No. (0...15)]	20	0014	1p	00	00	00
	Performance Part 1byte [p: Part No. (0...15)]	81	0051	1p	00	01	00
	Performance Part 2byte [p: Part No. (0...15)]	94	005E	1p	00	02	00
	Performance Part 2byte Pitch/Effect [p: Part No. (0...15)]	62	003E	1p	00	03	00
	Insertion A [p: Part No. (0...15)]	52	0034	1p	00	04	00
	Insertion B [p: Part No. (0...15)]	52	0034	1p	00	05	00
	Arpeggio Part [p: Part No. (0...15)]	84	0054	1p	00	06	00
	LFO [p: Part No. (0...15)]	68	0044	1p	00	07	00
	Zone Setting [p: Part No. (0...15)]	26	001A	1p	00	08	00
	Key Controller Box	64	0040	1p	00	09	00
	Scene Part [c: Scene No. (0...7), p: Part No. (0...15)]	64	0040	1p	03	0c	00
	Assignable Knob Name [p: Part No. (0...15), k: Knob No. (0...7)]	16	0010	1p	04	0k	00
	Controller 1 – 32 [p: Part No. (0...15), bb: Controller Box No. (0...32)]	18	0012	1p	05	bb	00
	Motion Seq Part/Lane Settings 1byte [L: Lane No. (0...3), p: Part No. (0...15)]	4	0004	1p	06	L0	00
	Motion Seq Part/Lane Settings 2byte [L: Lane No. (0...3), p: Part No. (0...15)]	20	0014	1p	07	L0	00
	Motion Seq Lane Sequence [L: Lane No. (0...3), m: MotionSeq No. (0...7), p: Part No. (0...15)]	102	0066	1p	08	Lm	00
	:			Max 16 Parts			
	NORMAL PART ELEMENT	Element 1byte [p: Part No. (0...15), ee: Element No. (0...127)]	36	0024	2p	00	ee 00
		Oscillator [p: Part No. (0...15), ee: Element No. (0...127)]	40	0028	2p	01	ee 00
		Amplitude [p: Part No. (0...15), ee: Element No. (0...127)]	54	0036	2p	02	ee 00
		Pitch [p: Part No. (0...15), ee: Element No. (0...127)]	48	0030	2p	03	ee 00
		Filter + EQ + LFO [p: Part No. (0...15), ee: Element No. (0...127)]	106	006A	2p	04	ee 00
	:	128 Blocks	Max 16 Parts				
	DRUM PART KEY	Key [kk: Key No. (0...72), p: Part No. (0...15)]	64	0040	2p	10	kk 00
		:	73 Blocks	Max 16 Parts			
	FM-X PART	Common [p: Part No. (0...15)]	82	0052	3p	00	00 00
		Filter [p: Part No. (0...15)]	70	0046	3p	00	01 00
		Controller Box Switch [o: Operator No. (0...7), p: Part No. (0...15)]	36	0024	3p	01	0o 00
		Operator [o: Operator No. (0...7), p: Part No. (0...15)]	70	0046	3p	02	0o 00
		:	8 Blocks	Max 16 Parts			
	AN-X PART	common [p: Part No. (0...15)]	110	006E	4p	00	00 00
		Oscillator Controller Box Switch [p: Part No. (0...15), o: Oscillator No. (0...2)]	36	0024	4p	01	0o 00
		Oscillator [p: Part No. (0...15), o: Oscillator No. (0...2)]	72	0048	4p	02	0o 00
		Filter Controller Box Switch [p: Part No. (0...15), f: Filter No. (0...1)]	36	0024	4p	03	0f 00
		Filter [p: Part No. (0...15), f: Filter No. (0...1)]	24	0018	4p	04	0f 00
		Wave Folder [p: Part No. (0...15)]	34	0022	4p	05	00 00
	Bulk Footer	0	00	05	04	01	nn

PERFORMANCE COMMON	Bulk Header	0	0000	04	04	02	00
PERFORMANCE COMMON	Performance Name	20	0014	06	00	00	00
	Performance Common 1byte param	29	001D	06	00	01	00
	Performance Common 2byte param	84	0054	06	00	02	00
	Performance Common Controller	84	0054	06	00	03	00
	Insertion A for A/D	52	0034	06	00	04	00
	Insertion B for A/D	52	0034	06	00	05	00
	Arpeggio Common	14	000E	06	00	06	00
	Reverb	52	0034	06	00	07	00
	Variation	52	0034	06	00	08	00
	VCM Rotary Speaker	68	0044	06	00	09	00
	Master EQ	34	0022	06	00	0A	00
	Master Effect	52	0034	06	00	0B	00

Parameter Block	Description	Byte Count		Top Address			
		Dec	Hex	1	2	3	4
PERFORMANCE COMMON	Motion Seq Common Settings	12	000C	06	00	0C	00
	Super Knob Settings	90	005A	06	00	0D	00
	Audio In Parts (A/D)	42	002A	06	00	0E	00
	Audio In Parts (USB)	14	000E	06	00	0F	00
	FM-X Smart Morph Data (File Dump)	3004	0BBC	06	00	10	00
	FM-X Smart Morph PNG Data (File Dump)	3000	0BB8	06	00	11	00
	Super Knob Lane Settings	20	0014	06	00	12	00
	AN-X Smart Morph Data (File Dump)	3004	0BBC	06	00	20	00
	AN-X Smart Morph PNG Data (File Dump)	3000	0BB8	06	00	21	00
	Super Knob Sequence [m: Motion Sequence No. (0...7)]	102	0066	06	01	0m	00
	Scene1 – 8 Common 1byte [c: Scene No. (0...7)]	18	0012	06	02	0c	00
	Scene1 – 8 Common 2byte [c: Scene No. (0...7)]	44	002C	06	03	0c	00
	Assignable Knob Name [k: Knob No. (0...7)]	16	0010	06	04	0k	00
	Common/AD Controller Box 1 – 32 [bb: Controller Box No. (0...31)]	16	0010	06	05	bb	00
	Motion Seq AD Part Lane Settings 1byte [L: Lane No. (0...3)]	4	0004	06	06	L0	00
	Motion Seq AD Part Lane Settings 2byte [L: Lane No. (0...3)]	20	0014	06	07	L0	00
	Motion Seq AD Part Lane Sequence [L: Lane No. (0...3), m: MotionSeq No. (0...7)]	102	0066	06	08	Lm	00
	Bulk Footer	0	00	07	04	02	00

Message Type	Data
Parameter Change	F0, 43, 1n, gh, gl, id, a1, a2, a3, a4, dt, ..., F7
Parameter Request	F0, 43, 3n, gh, gl, id, a1, a2, a3, a4, F7
Bulk Dump	F0, 43, 0n, gh, gl, bh, bl, id, a1, a2, a3, a4, dt, ..., cc, F7
Bulk Request	F0, 43, 2n, gh, gl, id, a1, a2, a3, a4, F7

n: Device Number
gh: Group Number High gl: Group Number Low bh: Byte Count High
bl: Byte Count Low id: Model ID
a1: Parameter Address 1 a2: Parameter Address 2 a3: Parameter Address 3 a4: Parameter Address 4 dt: Data
cc: Data Checksum

MIDI PARAMETER CHANGE TABLE (BULK CONTROL)

Group Number =7F 1C, Model ID = 0D

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
04	00	00	nn	1	-	Bulk Header	Performance PRE 1 (nn = 0 – 127)		
		01	nn	1	-		Performance PRE 2 (nn = 0 – 127)		
		02	nn	1	-		Performance PRE 3 (nn = 0 – 127)		
		03	nn	1	-		Performance PRE 4 (nn = 0 – 127)		
		04	nn	1	-		Performance PRE 5 (nn = 0 – 127)		
		05	nn	1	-		Performance PRE 6 (nn = 0 – 127)		
		06	nn	1	-		Performance PRE 7 (nn = 0 – 127)		
		07	nn	1	-		Performance PRE 8 (nn = 0 – 127)		
		08	nn	1	-		Performance PRE 9 (nn = 0 – 127)		
		09	nn	1	-		Performance PRE 10 (nn = 0 – 127)		
		0A	nn	1	-		Performance PRE 11 (nn = 0 – 127)		
		0B	nn	1	-		Performance PRE 12 (nn = 0 – 127)		
		0C	nn	1	-		Performance PRE 13 (nn = 0 – 127)		
		0D	nn	1	-		Performance PRE 14 (nn = 0 – 127)		
		0E	nn	1	-		Performance PRE 15 (nn = 0 – 127)		
		0F	nn	1	-		Performance PRE 16 (nn = 0 – 127)		
		10	nn	1	-		Performance PRE 17 (nn = 0 – 127)		
		11	nn	1	-		Performance PRE 18 (nn = 0 – 127)		
		12	nn	1	-		Performance PRE 19 (nn = 0 – 127)		
		13	nn	1	-		Performance PRE 20 (nn = 0 – 127)		
		14	nn	1	-		Performance PRE 21 (nn = 0 – 127)		
		15	nn	1	-		Performance PRE 22 (nn = 0 – 127)		
		16	nn	1	-		Performance PRE 23 (nn = 0 – 127)		
		17	nn	1	-		Performance PRE 24 (nn = 0 – 127)		
		18	nn	1	-		Performance PRE 25 (nn = 0 – 127)		
		19	nn	1	-		Performance PRE 26 (nn = 0 – 127)		
		1A	nn	1	-		Performance PRE 27 (nn = 0 – 127)		
		1B	nn	1	-		Performance PRE 28 (nn = 0 – 127)		
		1C	nn	1	-		Performance PRE 29 (nn = 0 – 127)		
		1D	nn	1	-		Performance PRE 30 (nn = 0 – 127)		
		1E	nn	1	-		Performance PRE 31 (nn = 0 – 127)		
		1F	nn	1	-		Performance PRE 32 (nn = 0 – 127)		
		20	nn	1	-		Performance PRE 33 (nn = 0 – 127)		
		21	nn	1	-		Performance PRE 34 (nn = 0 – 127)		
		22	nn	1	-		Performance PRE 35 (nn = 0 – 127)		
		23	nn	1	-		Performance PRE 36 (nn = 0 – 127)		
		24	nn	1	-		Performance PRE 37 (nn = 0 – 127)		
		25	nn	1	-		Performance PRE 38 (nn = 0 – 127)		
		26	nn	1	-		Performance PRE 39 (nn = 0 – 127)		
		27	nn	1	-		Performance PRE 40 (nn = 0 – 127)		
	01	00	nn	1	-		Performance USER 1 (nn = 0 – 127)		
		01	nn	1	-		Performance USER 2 (nn = 0 – 127)		
		02	nn	1	-		Performance USER 3 (nn = 0 – 127)		
		03	nn	1	-		Performance USER 4 (nn = 0 – 127)		
		04	nn	1	-		Performance USER 5 (nn = 0 – 127)		
	02	00	nn	1	-		Performance GM (nn = 0 – 127)		
		01	nn	1	-		Performance GM Drum (nn = 0)		
	03	00	nn	1	-		Performance LIBRARY 1 (nn = 0 – 127)		
		01	nn	1	-	Performance LIBRARY 2 (nn = 0 – 127)			
		02	nn	1	-	Performance LIBRARY 3 (nn = 0 – 127)			
		03	nn	1	-	Performance LIBRARY 4 (nn = 0 – 127)			
		04	nn	1	-	Performance LIBRARY 5 (nn = 0 – 127)			
		05	nn	1	-	Performance LIBRARY 6 (nn = 0 – 127)			
		06	nn	1	-	Performance LIBRARY 7 (nn = 0 – 127)			
		07	nn	1	-	Performance LIBRARY 8 (nn = 0 – 127)			
		08	nn	1	-	Performance LIBRARY 9 (nn = 0 – 127)			
		09	nn	1	-	Performance LIBRARY 10 (nn = 0 – 127)			
		0A	nn	1	-	Performance LIBRARY 11 (nn = 0 – 127)			
		0B	nn	1	-	Performance LIBRARY 12 (nn = 0 – 127)			
		0C	nn	1	-	Performance LIBRARY 13 (nn = 0 – 127)			
		0D	nn	1	-	Performance LIBRARY 14 (nn = 0 – 127)			
		0E	nn	1	-	Performance LIBRARY 15 (nn = 0 – 127)			
		0F	nn	1	-	Performance LIBRARY 16 (nn = 0 – 127)			
		10	nn	1	-	Performance LIBRARY 17 (nn = 0 – 127)			
		11	nn	1	-	Performance LIBRARY 18 (nn = 0 – 127)			
		12	nn	1	-	Performance LIBRARY 19 (nn = 0 – 127)			
		13	nn	1	-	Performance LIBRARY 20 (nn = 0 – 127)			
		14	nn	1	-	Performance LIBRARY 21 (nn = 0 – 127)			
		15	nn	1	-	Performance LIBRARY 22 (nn = 0 – 127)			
		16	nn	1	-	Performance LIBRARY 23 (nn = 0 – 127)			
		17	nn	1	-	Performance LIBRARY 24 (nn = 0 – 127)			
		18	nn	1	-	Performance LIBRARY 25 (nn = 0 – 127)			
		19	nn	1	-	Performance LIBRARY 26 (nn = 0 – 127)			
		1A	nn	1	-	Performance LIBRARY 27 (nn = 0 – 127)			
		1B	nn	1	-	Performance LIBRARY 28 (nn = 0 – 127)			
		1C	nn	1	-	Performance LIBRARY 29 (nn = 0 – 127)			
		1D	nn	1	-	Performance LIBRARY 30 (nn = 0 – 127)			

Address			Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
		1E	nn	1	-	Performance LIBRARY 31 (nn = 0 – 127)		
		1F	nn	1	-	Performance LIBRARY 32 (nn = 0 – 127)		
		20	nn	1	-	Performance LIBRARY 33 (nn = 0 – 127)		
		21	nn	1	-	Performance LIBRARY 34 (nn = 0 – 127)		
		22	nn	1	-	Performance LIBRARY 35 (nn = 0 – 127)		
		23	nn	1	-	Performance LIBRARY 36 (nn = 0 – 127)		
		24	nn	1	-	Performance LIBRARY 37 (nn = 0 – 127)		
		25	nn	1	-	Performance LIBRARY 38 (nn = 0 – 127)		
		26	nn	1	-	Performance LIBRARY 39 (nn = 0 – 127)		
		27	nn	1	-	Performance LIBRARY 40 (nn = 0 – 127)		
		28	nn	1	-	Performance LIBRARY 41 (nn = 0 – 127)		
		29	nn	1	-	Performance LIBRARY 42 (nn = 0 – 127)		
		2A	nn	1	-	Performance LIBRARY 43 (nn = 0 – 127)		
		2B	nn	1	-	Performance LIBRARY 44 (nn = 0 – 127)		
		2C	nn	1	-	Performance LIBRARY 45 (nn = 0 – 127)		
		2D	nn	1	-	Performance LIBRARY 46 (nn = 0 – 127)		
		2E	nn	1	-	Performance LIBRARY 47 (nn = 0 – 127)		
		2F	nn	1	-	Performance LIBRARY 48 (nn = 0 – 127)		
		30	nn	1	-	Performance LIBRARY 49 (nn = 0 – 127)		
		31	nn	1	-	Performance LIBRARY 50 (nn = 0 – 127)		
		32	nn	1	-	Performance LIBRARY 51 (nn = 0 – 127)		
		33	nn	1	-	Performance LIBRARY 52 (nn = 0 – 127)		
		34	nn	1	-	Performance LIBRARY 53 (nn = 0 – 127)		
		35	nn	1	-	Performance LIBRARY 54 (nn = 0 – 127)		
		36	nn	1	-	Performance LIBRARY 55 (nn = 0 – 127)		
		37	nn	1	-	Performance LIBRARY 56 (nn = 0 – 127)		
		38	nn	1	-	Performance LIBRARY 57 (nn = 0 – 127)		
		39	nn	1	-	Performance LIBRARY 58 (nn = 0 – 127)		
		3A	nn	1	-	Performance LIBRARY 59 (nn = 0 – 127)		
		3B	nn	1	-	Performance LIBRARY 60 (nn = 0 – 127)		
		3C	nn	1	-	Performance LIBRARY 61 (nn = 0 – 127)		
		3D	nn	1	-	Performance LIBRARY 62 (nn = 0 – 127)		
		3E	nn	1	-	Performance LIBRARY 63 (nn = 0 – 127)		
		3F	nn	1	-	Performance LIBRARY 64 (nn = 0 – 127)		
		40	nn	1	-	Performance LIBRARY 65 (nn = 0 – 127)		
		41	nn	1	-	Performance LIBRARY 66 (nn = 0 – 127)		
		42	nn	1	-	Performance LIBRARY 67 (nn = 0 – 127)		
		43	nn	1	-	Performance LIBRARY 68 (nn = 0 – 127)		
		44	nn	1	-	Performance LIBRARY 69 (nn = 0 – 127)		
		45	nn	1	-	Performance LIBRARY 70 (nn = 0 – 127)		
		46	nn	1	-	Performance LIBRARY 71 (nn = 0 – 127)		
		47	nn	1	-	Performance LIBRARY 72 (nn = 0 – 127)		
		48	nn	1	-	Performance LIBRARY 73 (nn = 0 – 127)		
		49	nn	1	-	Performance LIBRARY 74 (nn = 0 – 127)		
		4A	nn	1	-	Performance LIBRARY 75 (nn = 0 – 127)		
		4B	nn	1	-	Performance LIBRARY 76 (nn = 0 – 127)		
		4C	nn	1	-	Performance LIBRARY 77 (nn = 0 – 127)		
		4D	nn	1	-	Performance LIBRARY 78 (nn = 0 – 127)		
		4E	nn	1	-	Performance LIBRARY 79 (nn = 0 – 127)		
		4F	nn	1	-	Performance LIBRARY 80 (nn = 0 – 127)		
	04	00	00	1	-	Performance Edit Buffer		
		01	nn	1	-	Performance Edit Buffer Part nn (nn = 0 – 15)		
		02	00	1	-	Performance Edit Buffer Common		
	05	00	00	1	-	Curve Edit Buffer		
	06	00	00	1	-	Live Set Edit Buffer		
		10	0n	1	-	Live Set Edit Buffer Page n (n = 0 – 15)		
	07	0b	00	1	-	Live Set User Bank b (b = 0 – 7)		
		1b	0p	1	-	Live Set User Bank b Page p (b = 0 – 8, p = 0 – 15)		
	08	0b	00	1	-	Live Set Library Bank b (b = 0 – 7)		
		1b	0p	1	-	Live Set Library Bank b Page p (b = 0 – 15, p = 0 – 15)		
05	00	00	nn	1	-	Bulk Footer	Performance PRE 1 (nn = 0 – 127)	
		01	nn	1	-		Performance PRE 2 (nn = 0 – 127)	
		02	nn	1	-		Performance PRE 3 (nn = 0 – 127)	
		03	nn	1	-		Performance PRE 4 (nn = 0 – 127)	
		04	nn	1	-		Performance PRE 5 (nn = 0 – 127)	
		05	nn	1	-		Performance PRE 6 (nn = 0 – 127)	
		06	nn	1	-		Performance PRE 7 (nn = 0 – 127)	
		07	nn	1	-		Performance PRE 8 (nn = 0 – 127)	
		08	nn	1	-		Performance PRE 9 (nn = 0 – 127)	
		09	nn	1	-		Performance PRE 10 (nn = 0 – 127)	
		0A	nn	1	-		Performance PRE 11 (nn = 0 – 127)	
		0B	nn	1	-		Performance PRE 12 (nn = 0 – 127)	
		0C	nn	1	-		Performance PRE 13 (nn = 0 – 127)	
		0D	nn	1	-		Performance PRE 14 (nn = 0 – 127)	
		0E	nn	1	-		Performance PRE 15 (nn = 0 – 127)	

Address			Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
		0F	nn	1	-	Performance PRE 16 (nn = 0 – 127)		
		10	nn	1	-	Performance PRE 17 (nn = 0 – 127)		
		11	nn	1	-	Performance PRE 18 (nn = 0 – 127)		
		12	nn	1	-	Performance PRE 19 (nn = 0 – 127)		
		13	nn	1	-	Performance PRE 20 (nn = 0 – 127)		
		14	nn	1	-	Performance PRE 21 (nn = 0 – 127)		
		15	nn	1	-	Performance PRE 22 (nn = 0 – 127)		
		16	nn	1	-	Performance PRE 23 (nn = 0 – 127)		
		17	nn	1	-	Performance PRE 24 (nn = 0 – 127)		
		18	nn	1	-	Performance PRE 25 (nn = 0 – 127)		
		19	nn	1	-	Performance PRE 26 (nn = 0 – 127)		
		1A	nn	1	-	Performance PRE 27 (nn = 0 – 127)		
		1B	nn	1	-	Performance PRE 28 (nn = 0 – 127)		
		1C	nn	1	-	Performance PRE 29 (nn = 0 – 127)		
		1D	nn	1	-	Performance PRE 30 (nn = 0 – 127)		
		1E	nn	1	-	Performance PRE 31 (nn = 0 – 127)		
		1F	nn	1	-	Performance PRE 32 (nn = 0 – 127)		
		20	nn	1	-	Performance PRE 33 (nn = 0 – 128)		
		21	nn	1	-	Performance PRE 34 (nn = 0 – 129)		
		22	nn	1	-	Performance PRE 35 (nn = 0 – 130)		
		23	nn	1	-	Performance PRE 36 (nn = 0 – 131)		
		24	nn	1	-	Performance PRE 37 (nn = 0 – 132)		
		25	nn	1	-	Performance PRE 38 (nn = 0 – 133)		
		26	nn	1	-	Performance PRE 39 (nn = 0 – 134)		
		27	nn	1	-	Performance PRE 40 (nn = 0 – 135)		
01		00	nn	1	-	Performance USER 1 (nn = 0 – 127)		
		01	nn	1	-	Performance USER 2 (nn = 0 – 127)		
		02	nn	1	-	Performance USER 3 (nn = 0 – 127)		
		03	nn	1	-	Performance USER 4 (nn = 0 – 127)		
		04	nn	1	-	Performance USER 5 (nn = 0 – 127)		
	02	00	nn	1	-	Performance GM (nn = 0 – 127)		
		01	nn	1	-	Performance GM (nn = 0)		
03		00	nn	1	-	Performance LIBRARY 1 (nn = 0 – 127)		
		01	nn	1	-	Performance LIBRARY 2 (nn = 0 – 127)		
		02	nn	1	-	Performance LIBRARY 3 (nn = 0 – 127)		
		03	nn	1	-	Performance LIBRARY 4 (nn = 0 – 127)		
		04	nn	1	-	Performance LIBRARY 5 (nn = 0 – 127)		
		05	nn	1	-	Performance LIBRARY 6 (nn = 0 – 127)		
		06	nn	1	-	Performance LIBRARY 7 (nn = 0 – 127)		
		07	nn	1	-	Performance LIBRARY 8 (nn = 0 – 127)		
		08	nn	1	-	Performance LIBRARY 9 (nn = 0 – 127)		
		09	nn	1	-	Performance LIBRARY 10 (nn = 0 – 127)		
		0A	nn	1	-	Performance LIBRARY 11 (nn = 0 – 127)		
		0B	nn	1	-	Performance LIBRARY 12 (nn = 0 – 127)		
		0C	nn	1	-	Performance LIBRARY 13 (nn = 0 – 127)		
		0D	nn	1	-	Performance LIBRARY 14 (nn = 0 – 127)		
		0E	nn	1	-	Performance LIBRARY 15 (nn = 0 – 127)		
		0F	nn	1	-	Performance LIBRARY 16 (nn = 0 – 127)		
		10	nn	1	-	Performance LIBRARY 17 (nn = 0 – 127)		
		11	nn	1	-	Performance LIBRARY 18 (nn = 0 – 127)		
		12	nn	1	-	Performance LIBRARY 19 (nn = 0 – 127)		
		13	nn	1	-	Performance LIBRARY 20 (nn = 0 – 127)		
		14	nn	1	-	Performance LIBRARY 21 (nn = 0 – 127)		
		15	nn	1	-	Performance LIBRARY 22 (nn = 0 – 127)		
		16	nn	1	-	Performance LIBRARY 23 (nn = 0 – 127)		
		17	nn	1	-	Performance LIBRARY 24 (nn = 0 – 127)		
		18	nn	1	-	Performance LIBRARY 25 (nn = 0 – 127)		
		19	nn	1	-	Performance LIBRARY 26 (nn = 0 – 127)		
		1A	nn	1	-	Performance LIBRARY 27 (nn = 0 – 127)		
		1B	nn	1	-	Performance LIBRARY 28 (nn = 0 – 127)		
		1C	nn	1	-	Performance LIBRARY 29 (nn = 0 – 127)		
		1D	nn	1	-	Performance LIBRARY 30 (nn = 0 – 127)		
		1E	nn	1	-	Performance LIBRARY 31 (nn = 0 – 127)		
		1F	nn	1	-	Performance LIBRARY 32 (nn = 0 – 127)		
		20	nn	1	-	Performance LIBRARY 33 (nn = 0 – 127)		
		21	nn	1	-	Performance LIBRARY 34 (nn = 0 – 127)		
		22	nn	1	-	Performance LIBRARY 35 (nn = 0 – 127)		
		23	nn	1	-	Performance LIBRARY 36 (nn = 0 – 127)		
		24	nn	1	-	Performance LIBRARY 37 (nn = 0 – 127)		
		25	nn	1	-	Performance LIBRARY 38 (nn = 0 – 127)		
		26	nn	1	-	Performance LIBRARY 39 (nn = 0 – 127)		
		27	nn	1	-	Performance LIBRARY 40 (nn = 0 – 127)		
		28	nn	1	-	Performance LIBRARY 41 (nn = 0 – 127)		
		29	nn	1	-	Performance LIBRARY 42 (nn = 0 – 127)		
		2A	nn	1	-	Performance LIBRARY 43 (nn = 0 – 127)		
		2B	nn	1	-	Performance LIBRARY 44 (nn = 0 – 127)		
		2C	nn	1	-	Performance LIBRARY 45 (nn = 0 – 127)		

Address			Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
		2D	nn	1	-	Performance LIBRARY 46 (nn = 0 – 127)		
		2E	nn	1	-	Performance LIBRARY 47 (nn = 0 – 127)		
		2F	nn	1	-	Performance LIBRARY 48 (nn = 0 – 127)		
		30	nn	1	-	Performance LIBRARY 49 (nn = 0 – 127)		
		31	nn	1	-	Performance LIBRARY 50 (nn = 0 – 127)		
		32	nn	1	-	Performance LIBRARY 51 (nn = 0 – 127)		
		33	nn	1	-	Performance LIBRARY 52 (nn = 0 – 127)		
		34	nn	1	-	Performance LIBRARY 53 (nn = 0 – 127)		
		35	nn	1	-	Performance LIBRARY 54 (nn = 0 – 127)		
		36	nn	1	-	Performance LIBRARY 55 (nn = 0 – 127)		
		37	nn	1	-	Performance LIBRARY 56 (nn = 0 – 127)		
		38	nn	1	-	Performance LIBRARY 57 (nn = 0 – 127)		
		39	nn	1	-	Performance LIBRARY 58 (nn = 0 – 127)		
		3A	nn	1	-	Performance LIBRARY 59 (nn = 0 – 127)		
		3B	nn	1	-	Performance LIBRARY 60 (nn = 0 – 127)		
		3C	nn	1	-	Performance LIBRARY 61 (nn = 0 – 127)		
		3D	nn	1	-	Performance LIBRARY 62 (nn = 0 – 127)		
		3E	nn	1	-	Performance LIBRARY 63 (nn = 0 – 127)		
		3F	nn	1	-	Performance LIBRARY 64 (nn = 0 – 127)		
		40	nn	1	-	Performance LIBRARY 65 (nn = 0 – 127)		
		41	nn	1	-	Performance LIBRARY 66 (nn = 0 – 127)		
		42	nn	1	-	Performance LIBRARY 67 (nn = 0 – 127)		
		43	nn	1	-	Performance LIBRARY 68 (nn = 0 – 127)		
		44	nn	1	-	Performance LIBRARY 69 (nn = 0 – 127)		
		45	nn	1	-	Performance LIBRARY 70 (nn = 0 – 127)		
		46	nn	1	-	Performance LIBRARY 71 (nn = 0 – 127)		
		47	nn	1	-	Performance LIBRARY 72 (nn = 0 – 127)		
		48	nn	1	-	Performance LIBRARY 73 (nn = 0 – 127)		
		49	nn	1	-	Performance LIBRARY 74 (nn = 0 – 127)		
		4A	nn	1	-	Performance LIBRARY 75 (nn = 0 – 127)		
		4B	nn	1	-	Performance LIBRARY 76 (nn = 0 – 127)		
		4C	nn	1	-	Performance LIBRARY 77 (nn = 0 – 127)		
		4D	nn	1	-	Performance LIBRARY 78 (nn = 0 – 127)		
		4E	nn	1	-	Performance LIBRARY 79 (nn = 0 – 127)		
		4F	nn	1	-	Performance LIBRARY 80 (nn = 0 – 127)		
04		00	00	1	-	Performance Edit Buffer		
		01	nn	1	-	Performance Edit Buffer Part nn (nn = 0 – 15)		
		02	00	1	-	Performance Edit Buffer Common		
05		00	00	1	-	Curve Edit Buffer		
06		00	00	1	-	Live Set Edit Buffer		
		10	0n	1	-	Live Set Edit Buffer Page n (n = 0 – 15)		
07		0b	00	1	-	Live Set User Bank b (b = 0 – 7)		
		1b	0p	1	-	Live Set User Bank b Page p (b = 0 – 8, p = 0 – 15)		
08		0b	00	1	-	Live Set Library Bank b (b = 0 – 7)		
		1b	0p	1	-	Live Set Library Bank b Page p (b = 0 – 15, p = 0 – 15)		

MIDI PARAMETER CHANGE TABLE (SYSTEM)

Group Number =7F 1C, Model ID = 0D

Address					Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
00	00	00	00	00	2	00 00 – 00 7F	Tone Generator Volume	0 – 127	00 7F	MIDI Master Volume
				02	2	00 28 – 00 58	Tone Generator Note Shift	–24 – +24 semi	00 40	
				04	2	00 00 – 0F 7F	Tone Generator Tune	–102.4 – +102.3 MSB bit6-0 □ bit13-7 LSB bit6-0 □ bit6-0	08 00	
				06	2	00 00 – 00 01	Controller Reset	Hold, Reset	00 01	
				08	2	00 00 – 00 01	Local Control	Off, On	00 01	
				0A	2	00 00 – 00 01	Touch Panel Sound Switch	Off, On	00 01	
				0C	2	00 00 – 00 03	Analog Output L&R Output Gain	00: –6dB, 01:+0dB, 02: +6dB, 03: +12dB	00 01	
				0E	2	00 00 – 00 03	Assignable Output L&R Output Gain	00: –6dB, 01:+0dB, 02: +6dB, 03: +12dB	00 01	
				10	2	00 00 – 00 03	USB Main L&R Output Gain	00: –6dB, 01:+0dB, 02: +6dB, 03: +12dB	00 01	
				12	2	00 00 – 00 03	USB Individual Output Gain	00: –6dB, 01:+0dB, 02: +6dB, 03: +12dB	00 01	
				14	2	00 00 – 00 06	Keyboard Velocity Curve	Normal, Soft 1, Soft 2, Hard 1, Hard 2, Wide, Fixed	00 00	
				16	2	00 01 – 00 7F	Keyboard Fixed Velocity	1 – 127	00 40	
				18	2	00 00 – 00 01	Receive/Transmit Bank Select	Off, On	00 01	
				1A	2	00 00 – 00 01	Receive/Transmit Program Change	Off, On	00 01	
				1C	2	00 00 – 00 66	FS Assign Control Number	Off, 1 – 95, Arp SW, MS SW, Play/Stop, Live Set +, Live Set –, Oct reset, Tap Tempo	00 60	
				1E	2	00 00 – 00 5F	Super Knob Control Number	Off, 1 – 95	00 5F	
				20	2	00 00 – 00 5F	Scene Select Control Number	Off, 1 – 95	00 5C	
				22	2	00 00 – 00 01	MIDI IN/OUT	MIDI, USB	00 01	
				24	2	00 00 – 00 01	Audition Lock	Off, On	00 00	
				26	2	00 00 – 00 01	Power on Mode	Perform, Live Set	00 01	
				28	2	00 00 – 00 12	Bulk Interval	0 – 900ms	00 01	
				2A	2	00 00 – 00 18	Power on Live Set Bank	Preset, User1 – User 8, Library 1 – Library 16	00 01	
				2C	2	00 00 – 00 0F	Power on Live Set Page	Page 1 – Page 16	00 00	
				2E	2	00 00 – 00 0F	Power on Live Set Slot	Slot 1 – Slot 16	00 00	
				30	2	00 00 – 00 01	A/D Input Gain	Mic, Line	00 01	
				32	2	00 00 – 00 7F	USB Input Volume	0 – 127	00 7F	
				34	2	00 00 – 00 02	LED Half Glow Brightness	Off, 1/4, 1/2	00 01	
				36	2	00 00 – 00 01	Direct Monitor Switch	Off, On	00 01	
				38	2	00 00 – 00 0F	MIDI I/O Channel	Ch1, – Ch16	00 00	
				3A	2	00 00 – 01 14	Global Micro Tuning Scale	Equal Temperament, Pure Major, Pure Minor, Werckmeister, Kirnberger, Valloti&Young, 1/4 Shift, 1/4 tone, 1/8 tone, Indian, Arabic 1, Arabic 2, Arabic 3, User 1 – 8, Library1-1 – 16-8	00 00	
				3C	2	00 00 – 00 0B	Global Micro Tuning Root	C – B	00 00	
				3E	2	00 00 – 00 02	Sustain Pedal Select	FC3A (Half On), FC3A (Half Off), FC4A/FC5, Reverse Polarity	00 00	
				40	2	00 00 – 00 02	After Touch MIDI Out	Off / Ch. / Poly	00 00	
				42	2	00 00 – 00 04	After Touch Curve	Normal, Soft 1, Soft 2, Hard 1, Hard 2	00 00	
				44	2	00 00 – 00 1F	reserved		00 1F	

TOTAL SIZE = 70 46 (HEX)

Address					Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
00	00	01	00		2	00 00 – 00 03	Click Mode	Off, Rec, Rec/Play, Always	00 01	for SEQ
				02	2	00 00 – 00 5F	Click Output Select	0: MainL&R, 8: AsgnL&R, 9 – 23: USB1&2 – USB29&30 64 – 95: AsgnL, AsgnR, USB1 – USB30	00 00	"
				04	2	00 00 – 00 7F	Click Volume	0 – 127	00 64	"
				06	2	00 00 – 00 09	Click Type	1 – 10	00 00	"
				08	2	00 00 – 00 04	Click Beat	16th, 8th, 4th, 2nd, Whole	00 02	"
				0A	2	00 00 – 00 08	Recording Count	Off, 1 – 8meas	00 01	"
				0C	2	00 00 – 00 01	Transmit Sequencer Control	Off, On	00 00	"
				0E	2	00 00 – 00 01	Receive Sequencer Control	Off, On	00 00	"
				10	2	00 00 – 00 02	Song Event Chase	Off, PC, PC+PB+Ctrl	00 00	"
				12	2	00 00 – 00 02	MIDI Sync	Internal, MIDI, A/D In	00 01	"
				14	2	00 00 – 00 01	MIDI Clock Out	Off, On	00 00	"

TOTAL SIZE = 22 16 (HEX)

Address					Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
00	00	02	00		2	00 35 – 00 4B	Keyboard Transpose	–11 – +11 semi	00 40	
				02	2	00 3D – 00 43	Keyboard Octave Shift	–3 – +3	00 40	
				04	2	00 00 – 00 01	Global Micro Tuning Switch	Off, On	00 00	

TOTAL SIZE = 6 06 (HEX)

Address					Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
00	00	03	00		2	00 00 – 00 03	DAW Type	0=Cubase, 1=Logic, 2=ProTools, 3=AbletonLive	00 00	
				02	2	00 00 – 00 02	Remote Control Mode	0=Track, 1=Plugin, 2=Transport	00 00	
				04	2	00 01 – 00 5F	Super Knob Control Number	1 – 95	00 0F	
				06	2	00 01 – 00 5F	Assignable Knob 1 Control Number	1 – 95	00 10	
				08	2	00 01 – 00 5F	Assignable Knob 2 Control Number	1 – 95	00 11	
				0A	2	00 01 – 00 5F	Assignable Knob 3 Control Number	1 – 95	00 12	
				0C	2	00 01 – 00 5F	Assignable Knob 4 Control Number	1 – 95	00 13	
				0E	2	00 01 – 00 5F	Assignable Knob 5 Control Number	1 – 95	00 14	
				10	2	00 01 – 00 5F	Assignable Knob 6 Control Number	1 – 95	00 15	
				12	2	00 01 – 00 5F	Assignable Knob 7 Control Number	1 – 95	00 16	
				14	2	00 01 – 00 5F	Assignable Knob 8 Control Number	1 – 95	00 17	
				16	2	00 01 – 00 5F	Slider 1 Control Number	1 – 95	00 18	
				18	2	00 01 – 00 5F	Slider 2 Control Number	1 – 95	00 19	
				1A	2	00 01 – 00 5F	Slider 3 Control Number	1 – 95	00 1A	
				1C	2	00 01 – 00 5F	Slider 4 Control Number	1 – 95	00 1B	
				1E	2	00 01 – 00 5F	Slider 5 Control Number	1 – 95	00 1C	
				20	2	00 01 – 00 5F	Slider 6 Control Number	1 – 95	00 1D	
				22	2	00 01 – 00 5F	Slider 7 Control Number	1 – 95	00 1E	
				24	2	00 01 – 00 5F	Slider 8 Control Number	1 – 95	00 1F	

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			26	2	00 01 – 00 5F	Scene 1 Control Number	1 – 95	00 48	
			28	2	00 01 – 00 5F	Scene 2 Control Number	1 – 95	00 49	
			2A	2	00 01 – 00 5F	Scene 3 Control Number	1 – 95	00 4A	
			2C	2	00 01 – 00 5F	Scene 4 Control Number	1 – 95	00 4B	
			2E	2	00 01 – 00 5F	Scene 5 Control Number	1 – 95	00 4C	
			30	2	00 01 – 00 5F	Scene 6 Control Number	1 – 95	00 4D	
			32	2	00 01 – 00 5F	Scene 7 Control Number	1 – 95	00 4E	
			34	2	00 01 – 00 5F	Scene 8 Control Number	1 – 95	00 4F	
			36	2	00 01 – 00 5F	Ribbon Controller Control Number	1 – 95	00 50	
			38	2	00 01 – 00 5F	Foot Switch Control Number	1 – 95	00 51	
			3A	2	00 01 – 00 5F	Foot Controller 1 Control Number	1 – 95	00 52	
			3C	2	00 01 – 00 5F	Foot Controller 2 Control Number	1 – 95	00 53	
			3E	2	00 01 – 00 5F	Assignable Switch 1 Control Number	1 – 95	00 55	
			40	2	00 01 – 00 5F	Assignable Switch 2 Control Number	1 – 95	00 56	
			42	2	00 01 – 00 5F	Motion Seq Trigger Switch Control Number	1 – 95	00 58	
			44	2	00 01 – 00 5F	Time Control Number	1 – 95	00 05	
			46	2	00 01 – 00 5F	Portamento Switch Control Number	1 – 95	00 41	
			48	2	00 01 – 00 5F	Display Knob 1 Control Number	1 – 95	00 59	
			4A	2	00 01 – 00 5F	Display Knob 2 Control Number	1 – 95	00 5A	
			4C	2	00 01 – 00 5F	Display Knob 3 Control Number	1 – 95	00 5B	
			4E	2	00 01 – 00 5F	Display Knob 4 Control Number	1 – 95	00 5C	
			50	2	00 01 – 00 5F	Display Knob 5 Control Number	1 – 95	00 5D	
			52	2	00 01 – 00 5F	Display Knob 6 Control Number	1 – 95	00 5E	
			54	2	00 00 – 00 01	Ribbon Controller Mode	Hold, Reset	00 01	
			56	2	00 00 – 00 01	Foot Switch Mode	Momentary, Latch	00 01	
			58	2	00 00 – 00 01	Assignable Switch 1 Mode	Momentary, Latch	00 01	
			5A	2	00 00 – 00 01	Assignable Switch 2 Mode	Momentary, Latch	00 01	
			5C	2	00 00 – 00 01	Motion Seq Trigger Switch Mode	Momentary, Latch	00 01	
			5E	2	00 00 – 00 01	Scene 1 Switch Mode	Momentary, Latch	00 00	
			60	2	00 00 – 00 01	Scene 2 Switch Mode	Momentary, Latch	00 00	
			62	2	00 00 – 00 01	Scene 3 Switch Mode	Momentary, Latch	00 00	
			64	2	00 00 – 00 01	Scene 4 Switch Mode	Momentary, Latch	00 00	
			66	2	00 00 – 00 01	Scene 5 Switch Mode	Momentary, Latch	00 00	
			68	2	00 00 – 00 01	Scene 6 Switch Mode	Momentary, Latch	00 00	
			6A	2	00 00 – 00 01	Scene 7 Switch Mode	Momentary, Latch	00 00	
			6C	2	00 00 – 00 01	Scene 8 Switch Mode	Momentary, Latch	00 00	
			6E	2	00 00 – 00 01	Portamento Switch Mode	Momentary, Latch	00 01	
TOTAL SIZE = 112				70 (HEX)					

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
00	01	0n	00	2	00 1D – 01 63	Micro Tuning C	–99 – 0 – +99 [cent]	01 00	
			02	2	00 1D – 01 63	Micro Tuning C#	"	01 00	
			04	2	00 1D – 01 63	Micro Tuning D	"	01 00	
			06	2	00 1D – 01 63	Micro Tuning D#	"	01 00	
			08	2	00 1D – 01 63	Micro Tuning E	"	01 00	
			0A	2	00 1D – 01 63	Micro Tuning F	"	01 00	
			0C	2	00 1D – 01 63	Micro Tuning F#	"	01 00	
			0E	2	00 1D – 01 63	Micro Tuning G	"	01 00	
			10	2	00 1D – 01 63	Micro Tuning G#	"	01 00	
			12	2	00 1D – 01 63	Micro Tuning A	"	01 00	
			14	2	00 1D – 01 63	Micro Tuning A#	"	01 00	
			16	2	00 1D – 01 63	Micro Tuning B	"	01 00	

TOTAL SIZE = 24 18 (HEX)
n = user table number
00 – 07 Table 1 – 8

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
00	02	0n	00	1	00, 20 – 7E	Micro Tuning Table Name 1	0, 32 – 126 (ASCII)	Init Tuning 1	
			01	1	00, 20 – 7E	Micro Tuning Table Name 2	0, 32 – 126 (ASCII)	– 8 (same as the table number)	
			02	1	00, 20 – 7E	Micro Tuning Table Name 3	0, 32 – 126 (ASCII)		
			03	1	00, 20 – 7E	Micro Tuning Table Name 4	0, 32 – 126 (ASCII)		
			04	1	00, 20 – 7E	Micro Tuning Table Name 5	0, 32 – 126 (ASCII)		
			05	1	00, 20 – 7E	Micro Tuning Table Name 6	0, 32 – 126 (ASCII)		
			06	1	00, 20 – 7E	Micro Tuning Table Name 7	0, 32 – 126 (ASCII)		
			07	1	00, 20 – 7E	Micro Tuning Table Name 8	0, 32 – 126 (ASCII)		
			08	1	00, 20 – 7E	Micro Tuning Table Name 9	0, 32 – 126 (ASCII)		
			09	1	00, 20 – 7E	Micro Tuning Table Name 10	0, 32 – 126 (ASCII)		
			0A	1	00, 20 – 7E	Micro Tuning Table Name 11	0, 32 – 126 (ASCII)		
			0B	1	00, 20 – 7E	Micro Tuning Table Name 12	0, 32 – 126 (ASCII)		
			0C	1	00, 20 – 7E	Micro Tuning Table Name 13	0, 32 – 126 (ASCII)		
			0D	1	00, 20 – 7E	Micro Tuning Table Name 14	0, 32 – 126 (ASCII)		
			0E	1	00, 20 – 7E	Micro Tuning Table Name 15	0, 32 – 126 (ASCII)		
			0F	1	00, 20 – 7E	Micro Tuning Table Name 16	0, 32 – 126 (ASCII)		
			10	1	00, 20 – 7E	Micro Tuning Table Name 17	0, 32 – 126 (ASCII)		
			11	1	00, 20 – 7E	Micro Tuning Table Name 18	0, 32 – 126 (ASCII)		
			12	1	00, 20 – 7E	Micro Tuning Table Name 19	0, 32 – 126 (ASCII)		
			13	1	00, 20 – 7E	Micro Tuning Table Name 20	0, 32 – 126 (ASCII)		

TOTAL SIZE = 20 14 (HEX)
n = user table number
00 – 07 Table 1 – 8

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
00	00	7F	00	2	00 – 7F	Soundmondo Format Version Major		01	
				2	00 – 7F	Soundmondo Format Version Minor		00	
				2	00 – 7F	Soundmondo Format Version Bugfix		00	

TOTAL SIZE = 6 006 (Hex)

Address					Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
					2	00 00 – 00 01	Receive Bulk	Protect, On	00 01	
					2	00 00 – 00 10, 00 7F	Device Number	1 – 16, All, Off	00 10	
					2	00 00 – 00 01	Initialize User Data on Boot-up	Off, On	00 00	
					2	00 00 – 00 04	Display Mode	Range, FX/Pan, Arp/MS/Porta, Mode/Transpose, Filter	00 00	
					2	00 00 – 00 06	Auto Power Off Time	Off, 5, 10, 15, 30, 60, 120 [min]	00 00	
					2	00 00 – 00 01	Super Knob LED Flash Switch	Off, On	00 00	
					2	00 00 – 01 00	Super Knob LED Brightness	0 – 128	01 00	
					2	00 00 – 00 01	Animation Switch	Off, On	00 00	
					2	00 00 – 00 01	Blur Switch	Off, On	00 00	
					2	00 00 – 00 01	Audition Auto Stop	Off, On	00 00	
					2	00 00 – 00 01	Part Display	Type, Name	00 00	
					2	00 00 – 00 01	Aftertouch Time Response	Normal, Slow	00 00	

TOTAL SIZE = 24 018 (HEX)

MIDI PARAMETER CHANGE TABLE (CURVE)

Group Number =7F 1C, Model ID = 0D

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
01	00	nn	00	1	00, 20 – 7E	Curve Name 1	0, 32 – 126 (ASCII)	Init Curve 1-32 (same as the table number)	
			01	1	00, 20 – 7E	Curve Name 2	0, 32 – 126 (ASCII)		
			02	1	00, 20 – 7E	Curve Name 3	0, 32 – 126 (ASCII)		
			03	1	00, 20 – 7E	Curve Name 4	0, 32 – 126 (ASCII)		
			04	1	00, 20 – 7E	Curve Name 5	0, 32 – 126 (ASCII)		
			05	1	00, 20 – 7E	Curve Name 6	0, 32 – 126 (ASCII)		
			06	1	00, 20 – 7E	Curve Name 7	0, 32 – 126 (ASCII)		
			07	1	00, 20 – 7E	Curve Name 8	0, 32 – 126 (ASCII)		
			08	1	00, 20 – 7E	Curve Name 9	0, 32 – 126 (ASCII)		
			09	1	00, 20 – 7E	Curve Name 10	0, 32 – 126 (ASCII)		
			0A	1	00, 20 – 7E	Curve Name 11	0, 32 – 126 (ASCII)		
			0B	1	00, 20 – 7E	Curve Name 12	0, 32 – 126 (ASCII)		
			0C	1	00, 20 – 7E	Curve Name 13	0, 32 – 126 (ASCII)		
			0D	1	00, 20 – 7E	Curve Name 14	0, 32 – 126 (ASCII)		
			0E	1	00, 20 – 7E	Curve Name 15	0, 32 – 126 (ASCII)		
			0F	1	00, 20 – 7E	Curve Name 16	0, 32 – 126 (ASCII)		
			10	1	00, 20 – 7E	Curve Name 17	0, 32 – 126 (ASCII)		
			11	1	00, 20 – 7E	Curve Name 18	0, 32 – 126 (ASCII)		
			12	1	00, 20 – 7E	Curve Name 19	0, 32 – 126 (ASCII)		
			13	1	00, 20 – 7E	Curve Name 20	0, 32 – 126 (ASCII)		

TOTAL SIZE = 20 14 (HEX)
nn = user curve number
00 – 1F User Curve 1 – 32

Address				Size	Data Range MSB/LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
01	01	nn	00	2	00 00	Curve Input 1	0	00 00	Fixed to "0"
			02	2	00 01 – 07 79	Curve Input 2	1 – 1017	01 12	
			04	2	00 02 – 07 7A	Curve Input 3	2 – 1018	02 24	
			06	2	00 03 – 07 7B	Curve Input 4	3 – 1019	03 36	
			08	2	00 04 – 07 7C	Curve Input 5	4 – 1020	04 48	
			0A	2	00 05 – 07 7D	Curve Input 6	5 – 1021	05 5A	
			0C	2	00 06 – 07 7E	Curve Input 7	6 – 1022	06 6C	
			0E	2	00 07 – 07 7F	Curve Input 8	7 – 1023	07 7F	Fixed to 07 7F in the Linear Mode
			10	2	00 00 – 07 7F	Curve Output 1	0 – 1023	00 00	
			12	2	00 00 – 07 7F	Curve Output 2	0 – 1023	01 12	
			14	2	00 00 – 07 7F	Curve Output 3	0 – 1023	02 24	
			16	2	00 00 – 07 7F	Curve Output 4	0 – 1023	03 36	
			18	2	00 00 – 07 7F	Curve Output 5	0 – 1023	04 48	
			1A	2	00 00 – 07 7F	Curve Output 6	0 – 1023	05 5A	
			1C	2	00 00 – 07 7F	Curve Output 7	0 – 1023	06 6C	
			1E	2	00 00 – 07 7F	Curve Output 8	0 – 1023	07 7F	
			20	2	00 00 – 00 01	Curve Type	00 = Linear, 01 = Step	00 00	

TOTAL SIZE = 34 22 (HEX)

MIDI PARAMETER CHANGE TABLE (LIVE SET)

Group Number =7F 1C, Model ID = 0D

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
03	00	00	00	1	00, 20 – 7E	Live Set Bank Name 1	0, 32 – 126 (ASCII)	User 1-8 (same as the bank number)	
			01	1	00, 20 – 7E	Live Set Bank Name 2	0, 32 – 126 (ASCII)		
			02	1	00, 20 – 7E	Live Set Bank Name 3	0, 32 – 126 (ASCII)		
			03	1	00, 20 – 7E	Live Set Bank Name 4	0, 32 – 126 (ASCII)		
			04	1	00, 20 – 7E	Live Set Bank Name 5	0, 32 – 126 (ASCII)		
			05	1	00, 20 – 7E	Live Set Bank Name 6	0, 32 – 126 (ASCII)		
			06	1	00, 20 – 7E	Live Set Bank Name 7	0, 32 – 126 (ASCII)		
			07	1	00, 20 – 7E	Live Set Bank Name 8	0, 32 – 126 (ASCII)		
			08	1	00, 20 – 7E	Live Set Bank Name 9	0, 32 – 126 (ASCII)		
			09	1	00, 20 – 7E	Live Set Bank Name 10	0, 32 – 126 (ASCII)		
			0A	1	00, 20 – 7E	Live Set Bank Name 11	0, 32 – 126 (ASCII)		
			0B	1	00, 20 – 7E	Live Set Bank Name 12	0, 32 – 126 (ASCII)		
			0C	1	00, 20 – 7E	Live Set Bank Name 13	0, 32 – 126 (ASCII)		
			0D	1	00, 20 – 7E	Live Set Bank Name 14	0, 32 – 126 (ASCII)		
			0E	1	00, 20 – 7E	Live Set Bank Name 15	0, 32 – 126 (ASCII)		
			0F	1	00, 20 – 7E	Live Set Bank Name 16	0, 32 – 126 (ASCII)		
			10	1	00, 20 – 7E	Live Set Bank Name 17	0, 32 – 126 (ASCII)		
			11	1	00, 20 – 7E	Live Set Bank Name 18	0, 32 – 126 (ASCII)		
			12	1	00, 20 – 7E	Live Set Bank Name 19	0, 32 – 126 (ASCII)		
			13	1	00, 20 – 7E	Live Set Bank Name 20	0, 32 – 126 (ASCII)		

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
03	1p	00	00	1	00, 20 – 7E	Live Set Page Name 1	0, 32 – 126 (ASCII)	Live Set Page 1-16 (same as the page number)	
			01	1	00, 20 – 7E	Live Set Page Name 2	0, 32 – 126 (ASCII)		
			02	1	00, 20 – 7E	Live Set Page Name 3	0, 32 – 126 (ASCII)		
			03	1	00, 20 – 7E	Live Set Page Name 4	0, 32 – 126 (ASCII)		
			04	1	00, 20 – 7E	Live Set Page Name 5	0, 32 – 126 (ASCII)		
			05	1	00, 20 – 7E	Live Set Page Name 6	0, 32 – 126 (ASCII)		
			06	1	00, 20 – 7E	Live Set Page Name 7	0, 32 – 126 (ASCII)		
			07	1	00, 20 – 7E	Live Set Page Name 8	0, 32 – 126 (ASCII)		
			08	1	00, 20 – 7E	Live Set Page Name 9	0, 32 – 126 (ASCII)		
			09	1	00, 20 – 7E	Live Set Page Name 10	0, 32 – 126 (ASCII)		
			0A	1	00, 20 – 7E	Live Set Page Name 11	0, 32 – 126 (ASCII)		
			0B	1	00, 20 – 7E	Live Set Page Name 12	0, 32 – 126 (ASCII)		
			0C	1	00, 20 – 7E	Live Set Page Name 13	0, 32 – 126 (ASCII)		
			0D	1	00, 20 – 7E	Live Set Page Name 14	0, 32 – 126 (ASCII)		
			0E	1	00, 20 – 7E	Live Set Page Name 15	0, 32 – 126 (ASCII)		
			0F	1	00, 20 – 7E	Live Set Page Name 16	0, 32 – 126 (ASCII)		
			10	1	00, 20 – 7E	Live Set Page Name 17	0, 32 – 126 (ASCII)		
			11	1	00, 20 – 7E	Live Set Page Name 18	0, 32 – 126 (ASCII)		
			12	1	00, 20 – 7E	Live Set Page Name 19	0, 32 – 126 (ASCII)		
			13	1	00, 20 – 7E	Live Set Page Name 20	0, 32 – 126 (ASCII)		

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
03	2p	0s	00	1	00, 20 – 7E	Live Set Slot Name 1	0, 32 – 126 (ASCII)		
			01	1	00, 20 – 7E	Live Set Slot Name 2	0, 32 – 126 (ASCII)		
			02	1	00, 20 – 7E	Live Set Slot Name 3	0, 32 – 126 (ASCII)		
			03	1	00, 20 – 7E	Live Set Slot Name 4	0, 32 – 126 (ASCII)		
			04	1	00, 20 – 7E	Live Set Slot Name 5	0, 32 – 126 (ASCII)		
			05	1	00, 20 – 7E	Live Set Slot Name 6	0, 32 – 126 (ASCII)		
			06	1	00, 20 – 7E	Live Set Slot Name 7	0, 32 – 126 (ASCII)		
			07	1	00, 20 – 7E	Live Set Slot Name 8	0, 32 – 126 (ASCII)		
			08	1	00, 20 – 7E	Live Set Slot Name 9	0, 32 – 126 (ASCII)		
			09	1	00, 20 – 7E	Live Set Slot Name 10	0, 32 – 126 (ASCII)		
			0A	1	00, 20 – 7E	Live Set Slot Name 11	0, 32 – 126 (ASCII)		
			0B	1	00, 20 – 7E	Live Set Slot Name 12	0, 32 – 126 (ASCII)		
			0C	1	00, 20 – 7E	Live Set Slot Name 13	0, 32 – 126 (ASCII)		
			0D	1	00, 20 – 7E	Live Set Slot Name 14	0, 32 – 126 (ASCII)		
			0E	1	00, 20 – 7E	Live Set Slot Name 15	0, 32 – 126 (ASCII)		
			0F	1	00, 20 – 7E	Live Set Slot Name 16	0, 32 – 126 (ASCII)		
			10	1	00, 20 – 7E	Live Set Slot Name 17	0, 32 – 126 (ASCII)		
			11	1	00, 20 – 7E	Live Set Slot Name 18	0, 32 – 126 (ASCII)		
			12	1	00, 20 – 7E	Live Set Slot Name 19	0, 32 – 126 (ASCII)		
			13	1	00, 20 – 7E	Live Set Slot Name 20	0, 32 – 126 (ASCII)		

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
03	3p	0s	00	2	00 00 – 00 0F	Live Set Slot Color	Black, Red, Yellow, Green, Blue, Azure, Pink, Orange, Purple, Sakura, Cream, Lime, Aqua, Beige, Mint, Lilac	00 00	
			02	2	00 00 – 00 7F	Bank Select MSB	0 – 127	00 3F	
			04	2	00 00 – 00 7F	Bank Select LSB	0 – 127	00 00	
			06	2	00 00 – 00 7F	Performance Number	1 – 128	00 00	
			08	2	00 00 – 00 7F	Performance Volume	0 – 127	00 64	
			0A	2	00 00 – 00 01	Slot Switch	OFF, ON	00 00	
			0C	2	00 00 – 00 03	Slot Type	Performance, Song, Audio, Pattern	00 00	
			0E	2	00 00 – 00 7F	Content Number	1 – 128	00 00	
			10	2	00 00 – 00 20	reserved		00 1F	
TOTAL SIZE = 18					12 (HEX)				
p = Page number					Page 1 – 16				
00 – 0F									
s = Slot number					Slot 1 – 16				
00 – 0F									

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
03	4p	0s	00	256	00, 20 – 7E	Audio File Path	0, 32...126 (ASCII)	00	

TOTAL SIZE = 256 100 (HEX)
p = Page number
00 – 0F Page 1 – 16
s = Slot number
00 – 0F Slot 1 – 16

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
03	5p	0s	00	32	00, 30 – 39, 61 – 66	Identifier	"0"...'9', 'a'...'f	00	md5sum for the device information of the USB flash drive

TOTAL SIZE = 32 20 (HEX)
p = Page number
00 – 0F Page 1 – 16
s = Slot number
00 – 0F Slot 1 – 16

MIDI PARAMETER CHANGE TABLE (PERFORMANCE COMMON)

Group Number =7F 1C, Model ID = 0D

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
06	00	00	00	1	00, 20 – 7E	Performance Name 1	0, 32 – 126 (ASCII)	Initialized Perform	
			01	1	00, 20 – 7E	Performance Name 2	0, 32 – 126 (ASCII)		
			02	1	00, 20 – 7E	Performance Name 3	0, 32 – 126 (ASCII)		
			03	1	00, 20 – 7E	Performance Name 4	0, 32 – 126 (ASCII)		
			04	1	00, 20 – 7E	Performance Name 5	0, 32 – 126 (ASCII)		
			05	1	00, 20 – 7E	Performance Name 6	0, 32 – 126 (ASCII)		
			06	1	00, 20 – 7E	Performance Name 7	0, 32 – 126 (ASCII)		
			07	1	00, 20 – 7E	Performance Name 8	0, 32 – 126 (ASCII)		
			08	1	00, 20 – 7E	Performance Name 9	0, 32 – 126 (ASCII)		
			09	1	00, 20 – 7E	Performance Name 10	0, 32 – 126 (ASCII)		
			0A	1	00, 20 – 7E	Performance Name 11	0, 32 – 126 (ASCII)		
			0B	1	00, 20 – 7E	Performance Name 12	0, 32 – 126 (ASCII)		
			0C	1	00, 20 – 7E	Performance Name 13	0, 32 – 126 (ASCII)		
			0D	1	00, 20 – 7E	Performance Name 14	0, 32 – 126 (ASCII)		
			0E	1	00, 20 – 7E	Performance Name 15	0, 32 – 126 (ASCII)		
			0F	1	00, 20 – 7E	Performance Name 16	0, 32 – 126 (ASCII)		
			10	1	00, 20 – 7E	Performance Name 17	0, 32 – 126 (ASCII)		
			11	1	00, 20 – 7E	Performance Name 18	0, 32 – 126 (ASCII)		
			12	1	00, 20 – 7E	Performance Name 19	0, 32 – 126 (ASCII)		
			13	1	00, 20 – 7E	Performance Name 20	0, 32 – 126 (ASCII)		

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
06	00	01	00	1	00 – 01	Portamento Switch	Off, On	00	
			01	1	00 – 01	Assignable Switch 1 Mode	Momentary, Latch	01	
			02	1	00 – 01	Assignable Switch 2 Mode	Momentary, Latch	01	
			03	1	00 – 01	Scene Mixing / AEG Value Mode	Absolute, Offset	00	
			04	1	00 – 01	Ribbon Controller Mode	Hold, Reset	01	
			05	1	00 – 01	Reverb Switch	Off, On	01	
			06	1	00 – 01	Variation Switch	Off, On	01	
			07	1	00 – 01	Master EQ Switch	Off, On	01	
			08	1	00 – 01	Master Effect Switch	Off, On	00	
			09	1	00 – 01	Arpeggio Master Switch	Off, On	00	
			0A	1	00 – 01	Motion Seq Master Switch	Off, On	00	
			0B	1	00 – 01	Assignable Knob1 Link Switch	Off, On	01	
			0C	1	00 – 01	Assignable Knob2 Link Switch	Off, On	01	
			0D	1	00 – 01	Assignable Knob3 Link Switch	Off, On	01	
			0E	1	00 – 01	Assignable Knob4 Link Switch	Off, On	01	
			0F	1	00 – 01	Assignable Knob5 Link Switch	Off, On	01	
			10	1	00 – 01	Assignable Knob6 Link Switch	Off, On	01	
			11	1	00 – 01	Assignable Knob7 Link Switch	Off, On	01	
			12	1	00 – 01	Assignable Knob8 Link Switch	Off, On	01	
			13	1	00 – 01	A/D Part Insertion FX A Switch	Off, On	01	
			14	1	00 – 01	A/D Part Insertion FX B Switch	Off, On	01	
			15	1	00 – 01	A/D Part Motion Seq Part Switch	Off, On	01	
			16	1	00 – 01	Super Knob Motion Seq Switch	Off, On	00	
			17	1	00 – 01	Super Knob Motion Seq FX Receive	Off, On	01	

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
			18	1	00 – 01	Super Knob Motion Seq Trigger Receive	Off, On	00	
			19	1	00 – 01	Super Knob Motion Seq Loop	Off, On	01	
			1A	1	00 – 01	Keyboard After Touch Mode	Poly, Channel	00	This parameter is set to Channel on MONTAGE M6 and MONTAGE M7, regardless of the setting.
			1B	1	00 – 01	Smart Morph Super Knob Link	Off, On	00	
			1C	1	00 – 01	Slider Direction Part 1 – 8	Normal, Reverse	00	

TOTAL SIZE = 29 1D (HEX)

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
06	00	02	00	2	00 00 – 00 10	Performance Main Category	0 – 16 Refer to Performance Category List	00 10 (NoAsg)	
			02	2	00 00 – 00 07	Performance Sub Category	0 – 7 Refer to Performance Category List	00 00 (–)	
			04	2	00 00 – 00 10	Selected Part	1 – 16, Common	00 10	
			06	2	00 00 – 00 7F	Performance Volume	0 – 127	00 7F	
			08	2	00 01 – 00 7F	Performance Pan	L63 – C – R63	00 40	
			0A	2	00 00 – 00 7F	AEG Attack Time	–64 – +63	00 40	
			0C	2	00 00 – 00 7F	AEG Decay Time	–64 – +63	00 40	
			0E	2	00 00 – 00 7F	AEG Sustain Level	–64 – +63	00 40	
			10	2	00 00 – 00 7F	AEG Release Time	–64 – +63	00 40	
			12	2	00 00 – 00 7F	FEG Attack Time	–64 – +63	00 40	
			14	2	00 00 – 00 7F	FEG Decay Time	–64 – +63	00 40	
			16	2	00 00 – 00 7F	FEG Release Time	–64 – +63	00 40	
			18	2	00 00 – 00 7F	FEG Depth	–64 – +63	00 40	
			1A	2	00 00 – 00 7F	Cutoff Frequency	–64 – +63	00 40	
			1C	2	00 00 – 00 7F	Resonance	–64 – +63	00 40	
			1E	2	00 05 – 02 2C	Tempo	5 – 300	00 78	
			20	2	00 00 – 00 7F	Portamento Time	–64 – +63	00 40	
			22	2	00 00 – 00 7F	USB Main Monitor Volume	0 – 127	00 7F	
			24	2	00 00 – 00 7F	USB Assign Monitor Volume	0 – 127	00 7F	
			26	2	00 08 – 01 78	Swing Offset	–120 – 0 – +120	01 00	
			28	2	00 00 – 00 09	Unit Multiply	50%, 66%, 75%, 100%, 133%, 150%, 200%, 266%, 300%, 400%	00 03	
			2A	2	00 00 – 00 07	Scene Select	1 – 8	00 00	
			2C	2	00 01 – 50 7F	Audition Phrase Number	Preset (1 – 2320), User, Library (see the following chart)	00 01	
			2E	2	00 28 – 00 58	Audition Note Shift	–24 – 24	00 40	
			30	2	00 00 – 00 7F	Audition Velocity Shift	–64 – 63	00 40	
			32	2	00 00 – 00 7F	Reverb Return	0 – 127	00 40	
			34	2	00 01 – 00 7F	Reverb Pan	L63 – C – R63	00 40	
			36	2	00 00 – 00 11, 00 7F	Variation Side Chain Part	0: Part 1, 1: Part 2 – 15: Part 16, 16: A/D, 17: Master, 127: Off	00 7F	
			38	2	00 00 – 00 7F	Variation Return	0 – 127	00 60	
			3A	2	00 01 – 00 7F	Variation Pan	L63 – C – R63	00 40	

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			3C	2	00 00 – 00 7F	Send Variation To Reverb	0 – 127	00 00	
			3E	2	00 00 – 00 11, 00 7F	Insertion-A Side Chain Part	0: Part 1, 1: Part 2 – 15: Part 16, 16: A/D, 17: Master, 127: Off	00 7F	
			40	2	00 00 – 00 11, 00 7F	Insertion-B Side Chain Part	0: Part 1, 1: Part 2 – 15: Part 16, 16: A/D, 17: Master, 127: Off	00 7F	
			42	2	00 00 – 00 11, 00 7F	Master Effect Side Chain Part	0: Part 1, 1: Part 2 – 15: Part 16, 16: A/D, 17: Master, 127: Off	00 7F	
			44	2	00 10 – 00 70	Master Effect Envelope Follower Gain	–24dB – 0dB – +24dB	00 40	
			46	2	00 00 – 00 13	Master Effect Envelope Follower Attack	1ms – 40ms	00 10	
			48	2	00 00 – 00 0F	Master Effect Envelope Follower Release	10ms – 680ms	00 07	
			4A	2	00 00 – 00 01	VCM Rotary Speaker Switch	Off, On	00 00	
			4C	2	00 00 – 00 03	Split Points	Off, 1, 2, 3	00 00	
			4E	2	00 01 – 00 7D	Split Point 1	C#-2 – F8	00 3C	
			50	2	00 02 – 00 7E	Split Point 2	D-2 – F#8	00 48	
			52	2	00 03 – 00 7F	Split Point 3	D#-2 – G8	00 54	

TOTAL SIZE = 84 54 (HEX)

Bank	Data Range	Description
User	8192 ... 8319	001 ... 128
Library1	8320 ... 8447	001 ... 128
Library2	8448 ... 8575	001 ... 128
Library3	8576 ... 8703	001 ... 128
Library4	8704 ... 8831	001 ... 128
Library5	8832 ... 8959	001 ... 128
Library6	8960 ... 9087	001 ... 128
Library7	9088 ... 9215	001 ... 128
Library8	9216 ... 9343	001 ... 128
Library9	9344 ... 9471	001 ... 128
Library10	9472 ... 9599	001 ... 128
Library11	9600 ... 9727	001 ... 128
Library12	9728 ... 9855	001 ... 128
Library13	9856 ... 9983	001 ... 128
Library14	9984 ... 10111	001 ... 128
Library15	10112 ... 10239	001 ... 128
Library16	10240 ... 10367	001 ... 128

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
06	00	03	00	2	00 00 – 00 5F	Ribbon Controller Control Number	Off,1 – 95	00 10	
			02	2	00 00 – 00 5F	Breath Controller Control Number	Off,1 – 95	00 02	
			04	2	00 00 – 00 60	Foot Controller 1 Control Number	Off,1 – 95, Super Knob	00 0B	
			06	2	00 00 – 00 60	Foot Controller 2 Control Number	Off,1 – 95, Super Knob	00 60	
			08	2	00 00 – 00 5F	Assignable Switch 1 Control Number	Off,1 – 95	00 56	
			0A	2	00 00 – 00 5F	Assignable Switch 2 Control Number	Off,1 – 95	00 57	
			0C	2	00 00 – 00 07	reserved		00 00	
			0E	2	00 00 – 00 5F	Motion Seq Trigger Switch Control Number	Off,1 – 95	00 59	
			10	2	00 00 – 00 5F	Assignable Knob 1 Control Number	Off,1 – 95	00 11	
			12	2	00 00 – 00 5F	Assignable Knob 2 Control Number	Off,1 – 95	00 12	
			14	2	00 00 – 00 5F	Assignable Knob 3 Control Number	Off,1 – 95	00 13	
			16	2	00 00 – 00 5F	Assignable Knob 4 Control Number	Off,1 – 95	00 14	
			18	2	00 00 – 00 5F	Assignable Knob 5 Control Number	Off,1 – 95	00 15	
			1A	2	00 00 – 00 5F	Assignable Knob 6 Control Number	Off,1 – 95	00 16	
			1C	2	00 00 – 00 5F	Assignable Knob 7 Control Number	Off,1 – 95	00 17	

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			1E	2	00 00 – 00 5F	Assignable Knob 8 Control Number	Off,1 – 95	00 18	
			20	2	00 00 – 07 7F	Assignable Knob 1 Value	0 – 1023	04 00	
			22	2	00 00 – 07 7F	Assignable Knob 2 Value	0 – 1023	04 00	
			24	2	00 00 – 07 7F	Assignable Knob 3 Value	0 – 1023	04 00	
			26	2	00 00 – 07 7F	Assignable Knob 4 Value	0 – 1023	04 00	
			28	2	00 00 – 07 7F	Assignable Knob 5 Value	0 – 1023	04 00	
			2A	2	00 00 – 07 7F	Assignable Knob 6 Value	0 – 1023	04 00	
			2C	2	00 00 – 07 7F	Assignable Knob 7 Value	0 – 1023	04 00	
			2E	2	00 00 – 07 7F	Assignable Knob 8 Value	0 – 1023	04 00	
			30	2	00 00 – 00 03	Knob Mode	Selected Part, Multi, Groove, Assign	00 03	
			32	2	00 00 – 00 0B	Common Knob Function Select	0 – 11	00 01	
			34	2	00 00 – 00 04	Multi Knob Function Select	Reverb, Variation, Dry Level, Pan, Volume	00 00	
			36	2	00 00 – 00 07	Groove Knob Function Select	Quantize, Quantize Strength, Swing, Note Shift, Clock Shift, Gate Time, Velocity Rate, Velocity Offset	00 00	
			38	2	00 00 – 00 0F	AWM2 Knob Function Select	0 – 15	00 00	
			3A	2	00 00 – 00 0C	Drum Knob Function Select	0 – 12	00 00	
			3C	2	00 00 – 00 13	FM-X Knob Function Select	0 – 19	00 00	
			3E	2	00 00 – 00 1D	AN-X Knob Function Select	0 – 29	00 00	
			40	2	00 00 – 00 02	Ribbon Grid Mode	Continuous, 5 steps, 3 steps	00 00	
			42	2	00 00 – 00 10	Ribbon Grid Control Part	1 – 16, Common	00 10	
			44	2	00 00 – 7F 7F	Ribbon Grid Control Destination	Complies with Controller Box Destination	00 00	
			46	2	00 00 – 7F 7F	Ribbon Grid Step Value 1	Depends on the Destination	00 00	
			48	2	00 00 – 7F 7F	Ribbon Grid Step Value 2	Depends on the Destination	00 00	
			4A	2	00 00 – 7F 7F	Ribbon Grid Step Value 3	Depends on the Destination	00 00	
			4C	2	00 00 – 7F 7F	Ribbon Grid Step Value 4	Depends on the Destination	00 00	
			4E	2	00 00 – 7F 7F	Ribbon Grid Step Value 5	Depends on the Destination	00 00	
			50	2	00 00 – 00 01	Slider Mode	Part Control, Elem./ Op./Osc. Control	00 00	
			52	2	00 00 – 00 05	View Mode	Default, Part Info, Smart Morph, Motion Seq, Part-Note, Velocity-Note	00 00	

TOTAL SIZE = 84 54 (HEX)

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
06	00	04	00	2	00 00 – 7F 7F	Insertion-A Type	Refer to Effect Parameter List	00 00	for A/D Part
			02	2	00 00 – 7F 7F	Insertion-A Template Number		00 00	"
			04	2	00 00 – 7F 7F	Insertion-A Parameter 1	Refer to Effect Parameter List	00 00	"
			06	2	00 00 – 7F 7F	Insertion-A Parameter 2	"	00 00	"
			08	2	00 00 – 7F 7F	Insertion-A Parameter 3	"	00 00	"
			0A	2	00 00 – 7F 7F	Insertion-A Parameter 4	"	00 00	"
			0C	2	00 00 – 7F 7F	Insertion-A Parameter 5	"	00 00	"
			0E	2	00 00 – 7F 7F	Insertion-A Parameter 6	"	00 00	"
			10	2	00 00 – 7F 7F	Insertion-A Parameter 7	"	00 00	"
			12	2	00 00 – 7F 7F	Insertion-A Parameter 8	"	00 00	"

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			14	2	00 00 – 7F 7F	Insertion-A Parameter 9	"	00 00	"
			16	2	00 00 – 7F 7F	Insertion-A Parameter 10	"	00 00	"
			18	2	00 00 – 7F 7F	Insertion-A Parameter 11	"	00 00	"
			1A	2	00 00 – 7F 7F	Insertion-A Parameter 12	"	00 00	"
			1C	2	00 00 – 7F 7F	Insertion-A Parameter 13	"	00 00	"
			1E	2	00 00 – 7F 7F	Insertion-A Parameter 14	"	00 00	"
			20	2	00 00 – 7F 7F	Insertion-A Parameter 15	"	00 00	"
			22	2	00 00 – 7F 7F	Insertion-A Parameter 16	"	00 00	"
			24	2	00 00 – 7F 7F	Insertion-A Parameter 17	"	00 00	"
			26	2	00 00 – 7F 7F	Insertion-A Parameter 18	"	00 00	"
			28	2	00 00 – 7F 7F	Insertion-A Parameter 19	"	00 00	"
			2A	2	00 00 – 7F 7F	Insertion-A Parameter 20	"	00 00	"
			2C	2	00 00 – 7F 7F	Insertion-A Parameter 21	"	00 00	"
			2E	2	00 00 – 7F 7F	Insertion-A Parameter 22	"	00 00	"
			30	2	00 00 – 7F 7F	Insertion-A Parameter 23	"	00 00	"
			32	2	00 00 – 7F 7F	Insertion-A Parameter 24	"	00 00	"

TOTAL SIZE = 52 34 (HEX)

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
06	00	05	00	2	00 00 – 7F 7F	Insertion-B Type	Refer to Effect Parameter List	00 00	for A/D Part
			02	2	00 00 – 7F 7F	Insertion-B Preset Number		00 00	"
			04	2	00 00 – 7F 7F	Insertion-B Parameter 1	Refer to Effect Parameter List	00 00	"
			06	2	00 00 – 7F 7F	Insertion-B Parameter 2	"	00 00	"
			08	2	00 00 – 7F 7F	Insertion-B Parameter 3	"	00 00	"
			0A	2	00 00 – 7F 7F	Insertion-B Parameter 4	"	00 00	"
			0C	2	00 00 – 7F 7F	Insertion-B Parameter 5	"	00 00	"
			0E	2	00 00 – 7F 7F	Insertion-B Parameter 6	"	00 00	"
			10	2	00 00 – 7F 7F	Insertion-B Parameter 7	"	00 00	"
			12	2	00 00 – 7F 7F	Insertion-B Parameter 8	"	00 00	"
			14	2	00 00 – 7F 7F	Insertion-B Parameter 9	"	00 00	"
			16	2	00 00 – 7F 7F	Insertion-B Parameter 10	"	00 00	"
			18	2	00 00 – 7F 7F	Insertion-B Parameter 11	"	00 00	"
			1A	2	00 00 – 7F 7F	Insertion-B Parameter 12	"	00 00	"
			1C	2	00 00 – 7F 7F	Insertion-B Parameter 13	"	00 00	"
			1E	2	00 00 – 7F 7F	Insertion-B Parameter 14	"	00 00	"
			20	2	00 00 – 7F 7F	Insertion-B Parameter 15	"	00 00	"
			22	2	00 00 – 7F 7F	Insertion-B Parameter 16	"	00 00	"
			24	2	00 00 – 7F 7F	Insertion-B Parameter 17	"	00 00	"
			26	2	00 00 – 7F 7F	Insertion-B Parameter 18	"	00 00	"
			28	2	00 00 – 7F 7F	Insertion-B Parameter 19	"	00 00	"
			2A	2	00 00 – 7F 7F	Insertion-B Parameter 20	"	00 00	"
			2C	2	00 00 – 7F 7F	Insertion-B Parameter 21	"	00 00	"
			2E	2	00 00 – 7F 7F	Insertion-B Parameter 22	"	00 00	"

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			30	2	00 00 – 7F 7F	Insertion-B Parameter 23	"	00 00	"
			32	2	00 00 – 7F 7F	Insertion-B Parameter 24	"	00 00	"

TOTAL SIZE = 52 34 (HEX)

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
06	00	06	00	2	00 00 – 00 07	Arpeggio Select	1 – 8	00 00	
			02	2	00 00 – 00 07	Arpeggio Synchro Quantize Value	Off, 60, 80, 120, 160, 240, 320, 480	00 00	
			04	2	00 1C – 01 64	Arpeggio Quantize Strength Offset	–100 – +100	01 00	
			06	2	00 1C – 01 64	Arpeggio Gate Time Rate Offset	–100 – 0 – +100	01 00	
			08	2	00 1C – 01 64	Arpeggio Velocity Rate Offset	"	01 00	
			0A	2	00 3A – 00 46	Arpeggio Octave Range Offset	–6 – +6	00 40	
			0C	2	00 2C – 00 54	Arpeggio Output Octave Shift Offset	–20 – +20	00 40	

TOTAL SIZE = 14 0E (HEX)

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/LSB (HEX)	Notes
06	00	07	00	2	00 00 – 7F 7F	Reverb Type	Refer to Effect Parameter List	01 00	
			00	2	00 00 – 7F 7F	Reverb Preset Number		00 00	
			00	2	00 00 – 7F 7F	Reverb Parameter 1	Refer to Effect Parameter List	init value for Rev-X Hall / Basic	
			00	2	00 00 – 7F 7F	Reverb Parameter 2	"	init value for Rev-X Hall / Basic	
			00	2	00 00 – 7F 7F	Reverb Parameter 3	"	init value for Rev-X Hall / Basic	
			00	2	00 00 – 7F 7F	Reverb Parameter 4	"	init value for Rev-X Hall / Basic	
			00	2	00 00 – 7F 7F	Reverb Parameter 5	"	init value for Rev-X Hall / Basic	
			00	2	00 00 – 7F 7F	Reverb Parameter 6	"	init value for Rev-X Hall / Basic	
			00	2	00 00 – 7F 7F	Reverb Parameter 7	"	init value for Rev-X Hall / Basic	
			00	2	00 00 – 7F 7F	Reverb Parameter 8	"	init value for Rev-X Hall / Basic	
			00	2	00 00 – 7F 7F	Reverb Parameter 9	"	init value for Rev-X Hall / Basic	
			00	2	00 00 – 7F 7F	Reverb Parameter 10	"	init value for Rev-X Hall / Basic	
			00	2	00 00 – 7F 7F	Reverb Parameter 11	"	init value for Rev-X Hall / Basic	
			00	2	00 00 – 7F 7F	Reverb Parameter 12	"	init value for Rev-X Hall / Basic	
			00	2	00 00 – 7F 7F	Reverb Parameter 13	"	init value for Rev-X Hall / Basic	
			00	2	00 00 – 7F 7F	Reverb Parameter 14	"	init value for Rev-X Hall / Basic	
			00	2	00 00 – 7F 7F	Reverb Parameter 15	"	init value for Rev-X Hall / Basic	
			00	2	00 00 – 7F 7F	Reverb Parameter 16	"	init value for Rev-X Hall / Basic	
			00	2	00 00 – 7F 7F	Reverb Parameter 17	"	init value for Rev-X Hall / Basic	
			00	2	00 00 – 7F 7F	Reverb Parameter 18	"	init value for Rev-X Hall / Basic	
			00	2	00 00 – 7F 7F	Reverb Parameter 19	"	init value for Rev-X Hall / Basic	
			00	2	00 00 – 7F 7F	Reverb Parameter 20	"	init value for Rev-X Hall / Basic	
			00	2	00 00 – 7F 7F	Reverb Parameter 21	"	init value for Rev-X Hall / Basic	
			00	2	00 00 – 7F 7F	Reverb Parameter 22	"	init value for Rev-X Hall / Basic	
			00	2	00 00 – 7F 7F	Reverb Parameter 23	"	init value for Rev-X Hall / Basic	
			00	2	00 00 – 7F 7F	Reverb Parameter 24	"	init value for Rev-X Hall / Basic	

TOTAL SIZE = 0 00 (HEX)

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/LSB (HEX)	Notes
06	00	08	00	2	00 00 – 7F 7F	Variation Type	Refer to Effect Parameter List	03 00	
			00	2	00 00 – 7F 7F	Variation Preset Number		00 00	
			00	2	00 00 – 7F 7F	Variation Parameter 1	Refer to Effect Parameter List	init value for G Chorus / Baisc	
			00	2	00 00 – 7F 7F	Variation Parameter 2	"	init value for G Chorus / Baisc	
			00	2	00 00 – 7F 7F	Variation Parameter 3	"	init value for G Chorus / Baisc	
			00	2	00 00 – 7F 7F	Variation Parameter 4	"	init value for G Chorus / Baisc	
			00	2	00 00 – 7F 7F	Variation Parameter 5	"	init value for G Chorus / Baisc	
			00	2	00 00 – 7F 7F	Variation Parameter 6	"	init value for G Chorus / Baisc	
			00	2	00 00 – 7F 7F	Variation Parameter 7	"	init value for G Chorus / Baisc	
			00	2	00 00 – 7F 7F	Variation Parameter 8	"	init value for G Chorus / Baisc	
			00	2	00 00 – 7F 7F	Variation Parameter 9	"	init value for G Chorus / Baisc	
			00	2	00 00 – 7F 7F	Variation Parameter 10	"	init value for G Chorus / Baisc	
			00	2	00 00 – 7F 7F	Variation Parameter 11	"	init value for G Chorus / Baisc	
			00	2	00 00 – 7F 7F	Variation Parameter 12	"	init value for G Chorus / Baisc	
			00	2	00 00 – 7F 7F	Variation Parameter 13	"	init value for G Chorus / Baisc	
			00	2	00 00 – 7F 7F	Variation Parameter 14	"	init value for G Chorus / Baisc	
			00	2	00 00 – 7F 7F	Variation Parameter 15	"	init value for G Chorus / Baisc	
			00	2	00 00 – 7F 7F	Variation Parameter 16	"	init value for G Chorus / Baisc	
			00	2	00 00 – 7F 7F	Variation Parameter 17	"	init value for G Chorus / Baisc	
			00	2	00 00 – 7F 7F	Variation Parameter 18	"	init value for G Chorus / Baisc	
			00	2	00 00 – 7F 7F	Variation Parameter 19	"	init value for G Chorus / Baisc	
			00	2	00 00 – 7F 7F	Variation Parameter 20	"	init value for G Chorus / Baisc	
			00	2	00 00 – 7F 7F	Variation Parameter 21	"	init value for G Chorus / Baisc	
			00	2	00 00 – 7F 7F	Variation Parameter 22	"	init value for G Chorus / Baisc	
			00	2	00 00 – 7F 7F	Variation Parameter 23	"	init value for G Chorus / Baisc	
			00	2	00 00 – 7F 7F	Variation Parameter 24	"	init value for G Chorus / Baisc	

TOTAL SIZE = 0 00 (HEX)

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/LSB (HEX)	Notes
06	00	09	00	2	06 40 – 06 42	VCM Rotary Speaker Type	Refer to Effect Parameter List	06 42	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Preset Number		00 00	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 1	Refer to Effect Parameter List	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 2	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 3	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 4	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 5	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 6	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 7	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 8	"	init value for VCM Rotary Speaker Studio/Basic	

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/LSB (HEX)	Notes
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 9	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 10	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 11	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 12	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 13	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 14	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 15	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 16	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 17	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 18	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 19	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 20	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 21	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 22	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 23	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 24	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 25	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 26	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 27	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 28	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 29	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 30	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 31	"	init value for VCM Rotary Speaker Studio/Basic	
			00	2	00 00 – 7F 7F	VCM Rotary Speaker Parameter 32	"	init value for VCM Rotary Speaker Studio/Basic	

TOTAL SIZE = 0 00 (HEX)

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
06	00	0A	00	2	00 34 – 00 4C	Master EQ Low Gain	–12 – +12 [dB]	00 40	
			00	2	00 04 – 00 28	Master EQ Low Frequency	32 – 2000 [Hz]	00 0C	
			00	2	00 01 – 00 78	Master EQ Low Q	0. 1 – 12.0	00 07	This is not available when "shelving" is selected.
			00	2	00 00 – 00 01	Master EQ Low Shape	Shelf, Peak	00 00	
			00	2	00 34 – 00 4C	Master EQ Low Mid Gain	–12 – +12 [dB]	00 40	
			00	2	00 0E – 00 36	Master EQ Low Mid Frequency	100 – 10.0 [kHz]	00 14	
			00	2	00 01 – 00 78	Master EQ Low Mid Q	0.1 – 12.0	00 07	
			00	2	00 34 – 00 4C	Master EQ Mid Gain	–12 – +12 [dB]	00 40	
			00	2	00 0E – 00 36	Master EQ Mid Frequency	100 – 10.0 [kHz]	00 1C	
			00	2	00 01 – 00 78	Master EQ Mid Q	0.1 – 12.0	00 07	
			00	2	00 34 – 00 4C	Master EQ High Mid Gain	–12 – +12 [dB]	00 40	
			00	2	00 0E – 00 36	Master EQ High Mid Frequency	100 – 10.0 [kHz]	00 2C	
			00	2	00 01 – 00 78	Master EQ High Mid Q	0.1 – 12.0	00 07	
			00	2	00 34 – 00 4C	Master EQ High Gain	–12 – +12 [dB]	00 40	
			00	2	00 1C – 00 3A	Master EQ High Frequency	0.5 – 16.0 [kHz]	00 34	
			00	2	00 01 – 00 78	Master EQ High Q	0.1 – 12.0	00 07	This is not available when "shelving" is selected.
			00	2	00 00 – 00 01	Master EQ High Shape	Shelf, Peak	00 00	

TOTAL SIZE = 0 00 (HEX)

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
06	00	0B	00	2	00 00 – 7F 7F	Master Effect Type	Refer to Effect Parameter List	08 20	
			00	2	00 00 – 7F 7F	Master Effect Preset Number		00 00	
			00	2	00 00 – 7F 7F	Master Effect Parameter 1	Refer to Effect Parameter List	init value for Multi Band Comp / Basic	
			00	2	00 00 – 7F 7F	Master Effect Parameter 2	"	init value for Multi Band Comp / Basic	
			00	2	00 00 – 7F 7F	Master Effect Parameter 3	"	init value for Multi Band Comp / Basic	
			00	2	00 00 – 7F 7F	Master Effect Parameter 4	"	init value for Multi Band Comp / Basic	
			00	2	00 00 – 7F 7F	Master Effect Parameter 5	"	init value for Multi Band Comp / Basic	
			00	2	00 00 – 7F 7F	Master Effect Parameter 6	"	init value for Multi Band Comp / Basic	
			00	2	00 00 – 7F 7F	Master Effect Parameter 7	"	init value for Multi Band Comp / Basic	
			00	2	00 00 – 7F 7F	Master Effect Parameter 8	"	init value for Multi Band Comp / Basic	
			00	2	00 00 – 7F 7F	Master Effect Parameter 9	"	init value for Multi Band Comp / Basic	
			00	2	00 00 – 7F 7F	Master Effect Parameter 10	"	init value for Multi Band Comp / Basic	
			00	2	00 00 – 7F 7F	Master Effect Parameter 11	"	init value for Multi Band Comp / Basic	
			00	2	00 00 – 7F 7F	Master Effect Parameter 12	"	init value for Multi Band Comp / Basic	
			00	2	00 00 – 7F 7F	Master Effect Parameter 13	"	init value for Multi Band Comp / Basic	

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			00	2	00 00 – 7F 7F	Master Effect Parameter 14	"	init value for Multi Band Comp / Basic	
			00	2	00 00 – 7F 7F	Master Effect Parameter 15	"	init value for Multi Band Comp / Basic	
			00	2	00 00 – 7F 7F	Master Effect Parameter 16	"	init value for Multi Band Comp / Basic	
			00	2	00 00 – 7F 7F	Master Effect Parameter 17	"	init value for Multi Band Comp / Basic	
			00	2	00 00 – 7F 7F	Master Effect Parameter 18	"	init value for Multi Band Comp / Basic	
			00	2	00 00 – 7F 7F	Master Effect Parameter 19	"	init value for Multi Band Comp / Basic	
			00	2	00 00 – 7F 7F	Master Effect Parameter 20	"	init value for Multi Band Comp / Basic	
			00	2	00 00 – 7F 7F	Master Effect Parameter 21	"	init value for Multi Band Comp / Basic	
			00	2	00 00 – 7F 7F	Master Effect Parameter 22	"	init value for Multi Band Comp / Basic	
			00	2	00 00 – 7F 7F	Master Effect Parameter 23	"	init value for Multi Band Comp / Basic	
			00	2	00 00 – 7F 7F	Master Effect Parameter 24	"	init value for Multi Band Comp / Basic	

TOTAL SIZE = 0 00 (HEX)

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
06	00	0C	00	2	00 00 – 00 07	Motion Seq Select	1 – 8	00 00	
			02	2	00 01 – 01 7F	Motion Seq Amplitude Performance Offset	–127 – +127	01 00	
			04	2	00 0E – 00 72	Motion Seq Pulse Shape Performance Offset	–100, –98, – 0, – +98, +100	00 40	
			06	2	00 01 – 01 7F	Motion Seq Smoothness Performance Offset	–127 – +127	01 00	
			08	2	00 01 – 01 7F	Motion Seq Random Performance Offset	–127 – +127	01 00	
			0A	2	00 00 – 00 04	Motion Seq View Lane Common	Super Knob, 1, 2, 3, 4	00 00	

TOTAL SIZE = 12 0C (HEX)

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
06	00	0D	00	2	00 00 – 07 7F	Super Knob Value	0 – 1023	04 00	
			02	2	00 00 – 07 7E	Super Knob Mid Position	Off, 1 – 1022	00 00	
			04	2	00 00 – 07 7F	Assignable Knob 1 Destination Left Value	0 – 1023	00 00	
			06	2	00 00 – 07 7F	Assignable Knob 1 Destination Mid Value	0 – 1023	04 00	
			08	2	00 00 – 07 7F	Assignable Knob 1 Destination Right Value	0 – 1023	07 7F	
			0A	2	00 00 – 07 7F	Assignable Knob 2 Destination Left Value	0 – 1023	00 00	
			0C	2	00 00 – 07 7F	Assignable Knob 2 Destination Mid Value	0 – 1023	04 00	
			0E	2	00 00 – 07 7F	Assignable Knob 2 Destination Right Value	0 – 1023	07 7F	
			10	2	00 00 – 07 7F	Assignable Knob 3 Destination Left Value	0 – 1023	00 00	
			12	2	00 00 – 07 7F	Assignable Knob 3 Destination Mid Value	0 – 1023	04 00	
			14	2	00 00 – 07 7F	Assignable Knob 3 Destination Right Value	0 – 1023	07 7F	
			16	2	00 00 – 07 7F	Assignable Knob 4 Destination Left Value	0 – 1023	00 00	
			18	2	00 00 – 07 7F	Assignable Knob 4 Destination Mid Value	0 – 1023	04 00	
			1A	2	00 00 – 07 7F	Assignable Knob 4 Destination Right Value	0 – 1023	07 7F	

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			1C	2	00 00 – 07 7F	Assignable Knob 5 Destination Left Value	0 – 1023	00 00	
			1E	2	00 00 – 07 7F	Assignable Knob 5 Destination Mid Value	0 – 1023	04 00	
			20	2	00 00 – 07 7F	Assignable Knob 5 Destination Right Value	0 – 1023	07 7F	
			22	2	00 00 – 07 7F	Assignable Knob 6 Destination Left Value	0 – 1023	00 00	
			24	2	00 00 – 07 7F	Assignable Knob 6 Destination Mid Value	0 – 1023	04 00	
			26	2	00 00 – 07 7F	Assignable Knob 6 Destination Right Value	0 – 1023	07 7F	
			28	2	00 00 – 07 7F	Assignable Knob 7 Destination Left Value	0 – 1023	00 00	
			2A	2	00 00 – 07 7F	Assignable Knob 7 Destination Mid Value	0 – 1023	04 00	
			2C	2	00 00 – 07 7F	Assignable Knob 7 Destination Right Value	0 – 1023	07 7F	
			2E	2	00 00 – 07 7F	Assignable Knob 8 Destination Left Value	0 – 1023	00 00	

			30	2	00 00 – 07 7F	Assignable Knob 8 Destination Mid Value	0 – 1023	04 00	
			32	2	00 00 – 07 7F	Assignable Knob 8 Destination Right Value	0 – 1023	07 7F	
			34	2	00 00 – 00 2C	Super Knob LED Pattern	Off, Type 1, Type 2-1, Type 2-2, Type 3-1, Type 3-2, Type 4-1, Type 4-2, Type 5-1, Type 5-2, Type 6, Type 7-1, Type 7-2, Type 8-1, Type 8-2, Type 9, Type 10, Type 11, Type 1B, Type 2-1B, Type 2- 2B, Type 3-1B, Type 3-2B, Type 4-1B, Type 4-2B, Type 5- 1B, Type 5- 2B, Type 6B, Type 7-1B, Type 7- 2B, Type 8-1B, Type 8-2B, Type 9B, Type 10B, Type 11B, Rotary 1, Rotary 2, Rotary 3, Rotary 4, Rotary 5, Rotary 6, Rotary 7, Rotary 8, Rotary 9, Rotary 10	00 01	

			36	2	00 00 – 00 7F	Super Knob Motion Seq Random	0 – 127	00 00	
			38	2	00 00 – 00 06	Number of Waypoints	0 – 6	00 00	
			3A	2	00 00 – 00 1F	Start X	1 – 32	00 00	
			3C	2	00 00 – 00 1F	Start Y	1 – 32	00 00	
			3E	2	00 00 – 00 1F	End X	1 – 32	00 1F	
			40	2	00 00 – 00 1F	End Y	1 – 32	00 1F	
			42	2	00 00 – 00 1F	Waypoint 1 X	1 – 32	00 0F	
			44	2	00 00 – 00 1F	Waypoint 1 Y	1 – 32	00 07	
			46	2	00 00 – 00 1F	Waypoint 2 X	1 – 32	00 17	
			48	2	00 00 – 00 1F	Waypoint 2 Y	1 – 32	00 07	
			4A	2	00 00 – 00 1F	Waypoint 3 X	1 – 32	00 17	
			4C	2	00 00 – 00 1F	Waypoint 3 Y	1 – 32	00 0F	
			4E	2	00 00 – 00 1F	Waypoint 4 X	1 – 32	00 0F	
			50	2	00 00 – 00 1F	Waypoint 4 Y	1 – 32	00 17	
			52	2	00 00 – 00 1F	Waypoint 5 X	1 – 32	00 07	
			54	2	00 00 – 00 1F	Waypoint 5 Y	1 – 32	00 17	
			56	2	00 00 – 00 1F	Waypoint 6 X	1 – 32	00 07	
			58	2	00 00 – 00 1F	Waypoint 6 Y	1 – 32	00 0F	

TOTAL SIZE = 90 5A (HEX)

Address					Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
06	00	0E	00		2	00 00 – 00 03	A/D Part Input Mode	L Mono, R Mono, L+R Mono, Stereo	00 03	
			02		2	00 00 – 00 7F	A/D Part Volume	0 – 127	00 64	
			04		2	00 01 – 00 7F	A/D Part Pan	L63 – C – R63	00 40	
			06		2	00 00 – 00 7F	A/D Part Reverb Send	0 – 127	00 00	
			08		2	00 00 – 00 7F	A/D Part Variation Send	0 – 127	00 00	
			0A		2	00 01 – 00 02	A/D Part Insertion Connect Type	Ins A□B, Ins B□A	00 01	
			0C		2	00 00 – 00 5F, 00 7D	A/D Part Output Select	0: MainL&R, 8: AsgnL&R, 9 – 23: USB1&2 – USB29&30, 64 – 95: AsgnL, AsgnR, USB1 – USB30, 125: Off	00 00	
			0E		2	00 00 – 00 7F	A/D Part Dry Level	0 – 127	00 7F	
			10		2	00 10 – 00 70	A/D Part Envelope Follower Gain	–24dB – 0dB – +24dB	00 40	
			12		2	00 00 – 00 13	A/D Part Envelope Follower Attack	1ms – 40ms	00 10	
			14		2	00 00 – 00 0F	A/D Part Envelope Follower Release	10ms – 680ms	00 07	
			16		2	00 00 – 00 05	A/D Part 2-band EQ 1 Type	Thru, LPF, HPF, Low Shelf Hi Shelf, Peak/ Dip	00 00	
			18		2	00 30 – 01 74	A/D Part 2-band EQ 1 Frequency	63.0 – 18.0k	00 30	
			1A		2	00 28 – 00 58	A/D Part 2-band EQ 1 Gain	–12.00dB – +12.00dB	00 40	
			1C		2	00 01 – 00 78	A/D Part 2-band EQ 1 Q	0.1 – 12.0	00 01	
			1E		2	00 00 – 00 05	A/D Part 2-band EQ 2 Type	Thru, LPF, HPF, Low Shelf Hi Shelf, Peak/ Dip	00 00	
			20		2	00 30 – 01 74	A/D Part 2-band EQ 2 Frequency	63.0 – 18.0k	00 30	
			22		2	00 28 – 00 58	A/D Part 2-band EQ 2 Gain	–12.00dB – +12.00dB	00 40	
			24		2	00 01 – 00 78	A/D Part 2-band EQ 2 Q	0.1 – 12.0	00 01	
			26		2	00 28 – 00 58	A/D Part 2-band EQ Output Level	–12.00dB – +12.00dB	00 40	
			28		2	00 00 – 00 7F	A/D Part Motion Seq Random	0 – 127	00 00	
TOTAL SIZE = 42					2A					

Address					Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
06	00	0F	00		2	00 00 – 00 03	Digital Part Input Mode	L Mono, R Mono, L+R Mono, Stereo	00 03	
			02		2	00 00 – 00 7F	Digital Part Volume	0 – 127	00 64	
			04		2	00 01 – 00 7F	Digital Part Pan	L63 – C – R63	00 40	
			06		2	00 00 – 00 7F	Digital Part Reverb Send	0 – 127	00 00	
			08		2	00 00 – 00 7F	Digital Part Variation Send	0 – 127	00 00	
			0A		2	00 00 – 00 7F	Digital Part Dry Level	0 – 127	00 7F	
			0C		2	00 00 – 00 5F, 00 7D	Digital Part Output Select	0: MainL&R, 8: AsgnL&R, 9 – 23: Usb1&2 – USB29&30 64 – 95: AsgnL, AsgnR, USB1 – USB30, 125: Off	00 00	
TOTAL SIZE = 14					0E (HEX)					

Address			Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
06	00	10	00	-	FM-X Smart Morph Data	File Dump of FM-X Smart Morph Data		

Address			Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
06	00	11	00	-	FM-X Smart Morph PNG Data	File Dump of FM-X Smart Morph PNG Data		

Address					Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
06	00	12	00		2	00 00 – 00 02	Super Knob Motion Seq Sync	Off, Tempo, Beat	00 00	
			02		2	00 00 – 00 7F	Super Knob Motion Seq Speed	0 – 127	00 3F	This is available only when Sync is set to Off.
			04		2	00 00 – 00 11	Super Knob Motion Seq Unit Multiply	50%, 66%, 75%, 100%, 133%, 150%, 200%, 266%, 300%, 400%, 600%, 800%, 1200%, 1600%, 2400%, 3200%, 6400%, Common	00 03	This is not available when Sync is set to Off.
			06		2	00 00 – 00 02	Super Knob Motion Seq Key On Reset	Off, Each-On, 1st-On	00 00	This is not available when Sync is set to Arp.
			08		2	00 01 – 00 7F	Super Knob Motion Seq Velocity Limit Low	1 – 127	00 01	
			0A		2	00 01 – 00 7F	Super Knob Motion Seq Velocity Limit High	1 – 127	00 7F	
			0C		2	00 00 – 00 7F	Super Knob Motion Seq Lane Key On Delay Time Length	0 – 127	00 00	
			0E		2	00 00 – 00 20	Super Knob Motion Seq Lane Key On Delay Step Length	0 – 32	00 00	
			10		2	00 00 – 00 7F	Super Knob Motion Seq Lane Fade In Time Length	0 – 127	00 00	
			12		2	00 00 – 00 20	Super Knob Motion Seq Lane Fade In Step Length	0 – 32	00 00	
TOTAL SIZE = 20					14 (HEX)					

Address			Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
06	00	20	00	-	AN-X Smart Morph Data	File Dump of AN-X Smart Morph Data		

Address			Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
06	00	21	00	-	AN-X Smart Morph PNG Data	File Dump of AN-X Smart Morph PNG Data		

Address					Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
06	01	0	m	00	2	00 00 – 00 7F	Super Knob Motion Seq Amplitude	0 – 127	00 7F	
			02		2	00 00 – 00 7F	Super Knob Motion Seq Smoothness	0 – 127	00 00	
			04		2	00 00 – 00 0F	Super Knob Motion Seq Length	1 – 16	00 0F	
			06		2	00 00 – 00 01	Super Knob Motion Seq Polarity	Unipolar, Bipolar	00 00	
			08		2	00 01 – 00 07	Motion Seq Grid	60, 80, 120, 160, 240, 320, 480	00 03	
			0A		2	00 00 – 00 0F	Super Knob Motion Seq Loop Start	1 – 16	00 00	This is not available when Loop is set to Off. Loop Start is less than or equal to Length.
			0C		2	00 00	reserved		00 00	
			0E		2	00 00 – 00 7F	Super Knob Motion Seq Step 1 Value	0 – 127	00 40	
			10		2	00 00 – 00 7F	Super Knob Motion Seq Step 2 Value	0 – 127	00 40	
			12		2	00 00 – 00 7F	Super Knob Motion Seq Step 3 Value	0 – 127	00 40	
			14		2	00 00 – 00 7F	Super Knob Motion Seq Step 4 Value	0 – 127	00 40	
			16		2	00 00 – 00 7F	Super Knob Motion Seq Step 5 Value	0 – 127	00 40	

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			18	2	00 00 – 00 7F	Super Knob Motion Seq Step 6 Value	0 – 127	00 40	
			1A	2	00 00 – 00 7F	Super Knob Motion Seq Step 7 Value	0 – 127	00 40	
			1C	2	00 00 – 00 7F	Super Knob Motion Seq Step 8 Value	0 – 127	00 40	
			1E	2	00 00 – 00 7F	Super Knob Motion Seq Step 9 Value	0 – 127	00 40	
			20	2	00 00 – 00 7F	Super Knob Motion Seq Step 10 Value	0 – 127	00 40	
			22	2	00 00 – 00 7F	Super Knob Motion Seq Step 11 Value	0 – 127	00 40	
			24	2	00 00 – 00 7F	Super Knob Motion Seq Step 12 Value	0 – 127	00 40	
			26	2	00 00 – 00 7F	Super Knob Motion Seq Step 13 Value	0 – 127	00 40	
			28	2	00 00 – 00 7F	Super Knob Motion Seq Step 14 Value	0 – 127	00 40	
			2A	2	00 00 – 00 7F	Super Knob Motion Seq Step 15 Value	0 – 127	00 40	
			2C	2	00 00 – 00 7F	Super Knob Motion Seq Step 16 Value	0 – 127	00 40	
			2E	2	00 00 – 00 03	Super Knob Motion Seq Step 1 Type	A, B, Reverse A, Reverse B	00 00	
			30	2	00 00 – 00 03	Super Knob Motion Seq Step 2 Type	A, B, Reverse A, Reverse B	00 00	
			32	2	00 00 – 00 03	Super Knob Motion Seq Step 3 Type	A, B, Reverse A, Reverse B	00 00	
			34	2	00 00 – 00 03	Super Knob Motion Seq Step 4 Type	A, B, Reverse A, Reverse B	00 00	
			36	2	00 00 – 00 03	Super Knob Motion Seq Step 5 Type	A, B, Reverse A, Reverse B	00 00	
			38	2	00 00 – 00 03	Super Knob Motion Seq Step 6 Type	A, B, Reverse A, Reverse B	00 00	

			3A	2	00 00 – 00 03	Super Knob Motion Seq Step 7 Type	A, B, Reverse A, Reverse B	00 00	
			3C	2	00 00 – 00 03	Super Knob Motion Seq Step 8 Type	A, B, Reverse A, Reverse B	00 00	
			3E	2	00 00 – 00 03	Super Knob Motion Seq Step 9 Type	A, B, Reverse A, Reverse B	00 00	
			40	2	00 00 – 00 03	Super Knob Motion Seq Step 10 Type	A, B, Reverse A, Reverse B	00 00	
			42	2	00 00 – 00 03	Super Knob Motion Seq Step 11 Type	A, B, Reverse A, Reverse B	00 00	
			44	2	00 00 – 00 03	Super Knob Motion Seq Step 12 Type	A, B, Reverse A, Reverse B	00 00	
			46	2	00 00 – 00 03	Super Knob Motion Seq Step 13 Type	A, B, Reverse A, Reverse B	00 00	
			48	2	00 00 – 00 03	Super Knob Motion Seq Step 14 Type	A, B, Reverse A, Reverse B	00 00	
			4A	2	00 00 – 00 03	Super Knob Motion Seq Step 15 Type	A, B, Reverse A, Reverse B	00 00	
			4C	2	00 00 – 00 03	Super Knob Motion Seq Step 16 Type	A, B, Reverse A, Reverse B	00 00	
			4E	2	00 00 – 00 11	Super Knob Motion Seq Step Curve A Bank	0 = Preset, 1 = User, 2 = Library1, – 17 = Library16	00 00	
			50	2	00 00 – 00 1F	Super Knob Motion Seq Step Curve A Type	0 – 31 (0 – 17 when Bank is set to Preset)	00 00	
			52	2	00 00 – 00 7F	Super Knob Motion Seq Step Curve A Parameter 1	0 – 127	00 05	
			54	2	00 00 – 00 7F	Super Knob Motion Seq Step Curve A Parameter 2	0 – 127	00 00	
			56	2	00 00 – 00 01	Super Knob Motion Seq Step Curve A Shape Control SW1	Off, On	00 01	
			58	2	00 00 – 00 01	Super Knob Motion Seq Step Curve A Shape Control SW2	Off, On	00 00	
			5A	2	00 00 – 00 11	Super Knob Motion Seq Step Curve B Bank	0 = Preset, 1 = User, 2 = Library1, – 17= Library16	00 00	
			5C	2	00 00 – 00 1F	Super Knob Motion Seq Step Curve B Type	0 – 31 (0 – 17 when Bank is set to Preset)	00 00	
			5E	2	00 00 – 00 7F	Super Knob Motion Seq Step Curve B Parameter 1	0 – 127	00 05	
			60	2	00 00 – 00 7F	Super Knob Motion Seq Step Curve B Parameter 2	0 – 127	00 00	
			62	2	00 00 – 00 01	Super Knob Motion Seq Step Curve B Shape Control SW1	Off, On	00 01	

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			64	2	00 00 – 00 01	Super Knob Motion Seq Step Curve B Shape Control SW2	Off, On	00 00	

TOTAL SIZE = 102 66 (HEX)
m = motionSeq number
0 – 7 MotionSeq 1 – 8

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
06	02	0c	00	1	00 – 01	Scene Arpeggio Master Switch	Off, On	00	
			01	1	00 – 01	Scene Motion Seq Master Switch	Off, On	00	
			02	1	00 – 01	Scene Arpeggio Memorize Switch	Off, On	00	
			03	1	00 – 01	Scene Motion Seq Memorize Switch	Off, On	00	
			04	1	00 – 01	Scene Super Knob Memorize Switch	Off, On	00	
			05	1	00 – 01	Scene Mixing Memorize Switch	Off, On	00	
			06	1	00 – 01	Scene AEG Memorize Switch	Off, On	00	
			07	1	00 – 01	Scene Arp/MS FX Memorize Switch	Off, On	00	
			08	1	00 – 01	Scene Super Knob Link Memorize Switch	Off, On	00	
			09	1	00 – 01	Scene Super Knob Link Switch1	Off, On	01	
			0A	1	00 – 01	Scene Super Knob Link Switch2	Off, On	01	
			0B	1	00 – 01	Scene Super Knob Link Switch3	Off, On	01	
			0C	1	00 – 01	Scene Super Knob Link Switch4	Off, On	01	
			0D	1	00 – 01	Scene Super Knob Link Switch5	Off, On	01	
			0E	1	00 – 01	Scene Super Knob Link Switch6	Off, On	01	
			0F	1	00 – 01	Scene Super Knob Link Switch7	Off, On	01	
			10	1	00 – 01	Scene Super Knob Link Switch8	Off, On	01	
			11	1	00 – 01	Scene Keyboard Control Switch Memorize Switch	Off, On	00	

TOTAL SIZE = 18 12 (HEX)
c = scene number
0 – 7 Scene 1 – 8

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
06	03	0c	00	2	00 00 – 00 07	Scene Arpeggio Select	1 – 8	00 00	
			02	2	00 00 – 00 07	Scene Motion Seq Select	1 – 8	00 00	
			04	2	00 00 – 07 7F	Scene Super Knob Value	0 – 1023	04 00	
			06	2	00 00	reserved		00 00	
			08	2	00 01 – 00 7F	Pan	L63 – C – R63	00 40	
			0A	2	00 00 – 00 7F	Reverb Return	0 – 127	00 40	
			0C	2	00 00 – 00 7F	Variation Return	0 – 127	00 60	
			0E	2	00 00 – 00 7F	Filter Cutoff Frequency	–64 – +63	00 40	
			10	2	00 00 – 00 7F	Filter Resonance/Width	–64 – +63	00 40	
			12	2	00 00 – 00 7F	FEG Depth	–64 – +63	00 40	
			14	2	00 00 – 00 7F	AEG Attack Time	–64 – +63	00 40	
			16	2	00 00 – 00 7F	AEG Decay Time	–64 – +63	00 40	
			18	2	00 00 – 00 7F	AEG Sustain Level	–64 – +63	00 40	
			1A	2	00 00 – 00 7F	AEG Release Time	–64 – +63	00 40	
			1C	2	00 08 – 01 78	Swing	–120 – 0 – +120	01 00	
			1E	2	00 00 – 00 09	Unit Multiply	50%, 66%, 75%, 100%, 133%, 150%, 200%, 266%, 300%, 400%	00 03	
			20	2	00 1C – 01 64	Arpeggio Gate Time Rate Offset	–100 – 0 – +100	01 00	
			22	2	00 1C – 01 64	Arpeggio Velocity Rate Offset	–100 – 0 – +100	01 00	
			24	2	00 01 – 01 7F	Motion Seq Amplitude Performance Offset	–127 – +127	01 00	
			26	2	00 0E – 00 72	Motion Seq Pulse Shape Performance Offset	–100, –98, – 0, – +98, +100	00 40	

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			28	2	00 01 – 01 7F	Motion Seq Smoothness Performance Offset	–127 – +127	01 00	
			2A	2	00 01 – 01 7F	Motion Seq Random Performance Offset	–127 – +127	01 00	

TOTAL SIZE = 44 2C (HEX)
c = scene number
0 – 7 Scene 1 – 8

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
06	04	0k	00	1	00, 20 – 7E	Assignable Knob Name 1	0, 32 – 126 (ASCII)	Assign 1-8	
			01	1	00, 20 – 7E	Assignable Knob Name 2	0, 32 – 126 (ASCII)	(same as the knob number)	
			02	1	00, 20 – 7E	Assignable Knob Name 3	0, 32 – 126 (ASCII)		
			03	1	00, 20 – 7E	Assignable Knob Name 4	0, 32 – 126 (ASCII)		
			04	1	00, 20 – 7E	Assignable Knob Name 5	0, 32 – 126 (ASCII)		
			05	1	00, 20 – 7E	Assignable Knob Name 6	0, 32 – 126 (ASCII)		
			06	1	00, 20 – 7E	Assignable Knob Name 7	0, 32 – 126 (ASCII)		
			07	1	00, 20 – 7E	Assignable Knob Name 8	0, 32 – 126 (ASCII)		
			08	1	00, 20 – 7E	Assignable Knob Name 9	0, 32 – 126 (ASCII)		
			09	1	00, 20 – 7E	Assignable Knob Name 10	0, 32 – 126 (ASCII)		
			0A	1	00, 20 – 7E	Assignable Knob Name 11	0, 32 – 126 (ASCII)		
			0B	1	00, 20 – 7E	Assignable Knob Name 12	0, 32 – 126 (ASCII)		
			0C	1	00, 20 – 7E	Assignable Knob Name 13	0, 32 – 126 (ASCII)		
			0D	1	00, 20 – 7E	Assignable Knob Name 14	0, 32 – 126 (ASCII)		
			0E	1	00, 20 – 7E	Assignable Knob Name 15	0, 32 – 126 (ASCII)		
			0F	1	00, 20 – 7E	Assignable Knob Name 16	0, 32 – 126 (ASCII)		

TOTAL SIZE = 16 10 (HEX)
k = knob number
0 – 7 Knob 1 – 8

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
06	05	bb	00	2	00 00 – 00 01	Controller Set Switch	Off, On	00 00	
			02	2	00 08 – 00 0F, 00 12 – 00 27	Controller Set Source	8 – 15, 18 – 39 (Refer to Controller Box Source of Control List)	00 08	
			04	2	00 01 – 02 76	Controller Set Destination	1 – 393 (Refer to Controller Box Destination of Control List)	00 01	
			06	2	00 00 – 00 11	Controller Set Curve Bank	0 = Preset, 1 = User, 2 = Library1, – 17= Library16	00 00	
			08	2	00 00 – 00 1F	Controller Set Curve Type	0 – 31 (0 – 17 when Bank is set to Preset)	00 00	
			0A	2	00 00 – 00 7F	Controller Set Curve Parameter 1	0 – 127	00 05	Fixed to “0” except when Bank is set to Preset
			0C	2	00 00 – 00 7F	Controller Set Curve Parameter 2	0 – 127	00 00	Fixed to “0” except when Bank is set to Preset
			0E	2	00 00 – 00 01	Controller Set Polarity	Unipolar, Bipolar	00 00	
			10	2	00 00 – 01 7F	Controller Set Ratio	–128 – +127	01 40	

TOTAL SIZE = 16 10 (HEX)
bb = box number
0 – 31 Box 1 – 32

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
06	06	L0	00	1	00 – 01	AD Part Motion Seq Lane Switch	Off, On	00	
			01	1	00 – 01	AD Part Motion Seq Lane FX Receive	Off, On	01	
			02	1	00 – 01	AD Part Motion Seq Lane Trigger Receive	Off, On	00	
			03	1	00 – 01	AD Part Motion Seq Lane Loop	Off, On	01	

TOTAL SIZE = 4 04 (HEX)
L = lane number
0 – 3 Lane 1 – 4

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
06	07	L0	00	2	00 00 – 00 03	AD Part Motion Seq Lane Sync	Off, Tempo, Beat, Lane1	00 00	Lane 1 is not available for Lane 1.
			00	2	00 00 – 00 7F	AD Part Motion Seq Lane Speed	0 – 127	00 3F	This is available only when
									Sync is set to Off.
			00	2	00 00 – 00 11	AD Part Motion Seq Lane Unit	50%, 66%, 75%, 100%, 133%, 150%, 200%, 266%, 300%, 400%, 600%, 800%, 1200%, 1600%, 2400%, 3200%, 6400%, Common	00 03	This is not available when Sync is set to Off.
			00	2	00 00 – 00 02	AD Part Motion Seq Lane Key On Reset	Off, Each-On, 1st-On	00 00	
			00	2	00 01 – 00 7F	AD Part Motion Seq Lane Velocity Limit Low	1 – 127	00 01	
			00	2	00 01 – 00 7F	AD Part Motion Seq Lane Velocity Limit High	1 – 127	00 7F	
			00	2	00 00 – 00 7F	AD Part Motion Seq Lane Key On Delay Time Length	0 – 127	00 00	
			00	2	00 00 – 00 20	AD Part Motion Seq Lane Key On Delay Step Length	0 – 32	00 00	
			00	2	00 00 – 00 7F	AD Part Motion Seq Lane Fade In Time Length	0 – 127	00 00	
			00	2	00 00 – 00 20	AD Part Motion Seq Lane Fade In Step Length	0 – 32	00 00	

TOTAL SIZE = 0 00 (HEX)
L = lane number
0 – 3 Lane 1 – 4

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
06	08	L m	00	2	00 00 – 00 7F	AD Part Motion Seq Amplitude	0 – 127	00 40	
			02	2	00 00 – 00 7F	AD Part Motion Seq Smoothness	0 – 127	00 00	
			04	2	00 00 – 00 0F	AD Part Motion Seq Length	1 – 16	00 0F	
			06	2	00 00 – 00 01	AD Part Motion Seq Polarity	Unipolar, Bipolar	00 00	
			08	2	00 01 – 00 07	Motion Seq Grid	60, 80, 120, 160, 240, 320, 480	00 03	
			0A	2	00 00 – 00 0F	Lane Motion Seq Loop Start	1 – 16	00 00	This is not available when Loop is set to Off. Loop Start is less than or equal to Length.
			0C	2	00 00	reserved		00 00	
			0E	2	00 00 – 00 7F	AD Part Motion Seq Step 1 Value	0 – 127	00 40	
			10	2	00 00 – 00 7F	AD Part Motion Seq Step 2 Value	0 – 127	00 40	
			12	2	00 00 – 00 7F	AD Part Motion Seq Step 3 Value	0 – 127	00 40	
			14	2	00 00 – 00 7F	AD Part Motion Seq Step 4 Value	0 – 127	00 40	

MIDI PARAMETER CHANGE TABLE (PERFORMANCE PART)

Group Number = 7F 1C, Model ID = 0D

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
1p	00	00	00	1	00, 20 – 7E	Part Name 1	0, 32 – 126 (ASCII)	Initialized Part	
			01	1	00, 20 – 7E	Part Name 2	0, 32 – 126 (ASCII)		
			02	1	00, 20 – 7E	Part Name 3	0, 32 – 126 (ASCII)		
			03	1	00, 20 – 7E	Part Name 4	0, 32 – 126 (ASCII)		
			04	1	00, 20 – 7E	Part Name 5	0, 32 – 126 (ASCII)		
			05	1	00, 20 – 7E	Part Name 6	0, 32 – 126 (ASCII)		
			06	1	00, 20 – 7E	Part Name 7	0, 32 – 126 (ASCII)		
			07	1	00, 20 – 7E	Part Name 8	0, 32 – 126 (ASCII)		
			08	1	00, 20 – 7E	Part Name 9	0, 32 – 126 (ASCII)		
			09	1	00, 20 – 7E	Part Name 10	0, 32 – 126 (ASCII)		
			0A	1	00, 20 – 7E	Part Name 11	0, 32 – 126 (ASCII)		
			0B	1	00, 20 – 7E	Part Name 12	0, 32 – 126 (ASCII)		
			0C	1	00, 20 – 7E	Part Name 13	0, 32 – 126 (ASCII)		
			0D	1	00, 20 – 7E	Part Name 14	0, 32 – 126 (ASCII)		
			0E	1	00, 20 – 7E	Part Name 15	0, 32 – 126 (ASCII)		
			0F	1	00, 20 – 7E	Part Name 16	0, 32 – 126 (ASCII)		
			10	1	00, 20 – 7E	Part Name 17	0, 32 – 126 (ASCII)		
			11	1	00, 20 – 7E	Part Name 18	0, 32 – 126 (ASCII)		
			12	1	00, 20 – 7E	Part Name 19	0, 32 – 126 (ASCII)		
			13	1	00, 20 – 7E	Part Name 20	0, 32 – 126 (ASCII)		

TOTAL SIZE = 20 14 (HEX)
p = Part number
0 – F Part 1 – 16 (Normal, Drum, FM-X, AN-X)

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
1p	00	01	00	1	00 – 01	Part Switch	Off, On	01	
			01	1	00 – 01	Part Mode	Internal, External	00	
			02	1	00 – 01	Keyboard Control Switch	Off, On	01	Fixed to "Off" for Part 9 or later.
			03	1	00 – 01	Mute Switch	Off, On	00	
			04	1	00 – 01	Insertion FX A Switch	Off, On	01	
			05	1	00 – 01	Insertion FX B Switch	Off, On	01	
			06	1	00 – 01	Element Pan Switch	Off, On	01	
			07	1	00 – 01	Motion Seq Part Switch	Off, On	01	
			08	1	00 – 01	Key Assign Mode	Single, Multi	01	Not available for Drum Part
			09	1	00 – 01	Mono/Poly Mode	Mono, Poly	01	Not available for Drum Part
			0A	1	00 – 01	Portamento Switch	Off, On	01	Not available for Drum Part
			0B	1	00 – 01	Receive Pitch Bend	Off, On	01	
			0C	1	00 – 01	Receive After Touch	Off, On	01	
			0D	1	00 – 01	Receive PAT	Off, On	01	
			0E	1	00 – 01	Receive Program Change	Off, On	01	
			0F	1	00 – 01	Receive Bank Select	Off, On	01	
			10	1	00 – 01	Receive Control Change	Off, On	01	
			11	1	00 – 01	Receive Assignable Knob 1	Off, On	01	
			12	1	00 – 01	Receive Assignable Knob 2	Off, On	01	
			13	1	00 – 01	Receive Assignable Knob 3	Off, On	01	
			14	1	00 – 01	Receive Assignable Knob 4	Off, On	01	
			15	1	00 – 01	Receive Assignable Knob 5	Off, On	01	
			16	1	00 – 01	Receive Assignable Knob 6	Off, On	01	
			17	1	00 – 01	Receive Assignable Knob 7	Off, On	01	
			18	1	00 – 01	Receive Assignable Knob 8	Off, On	01	
			19	1	00 – 01	Receive Foot Controller 1	Off, On	01	
			1A	1	00 – 01	Receive Foot Controller 2	Off, On	01	
			1B	1	00 – 01	Receive Modulation Wheel	Off, On	01	
			1C	1	00 – 01	Receive Sustain / Sostenuto	Off, On	01	
			1D	1	00 – 01	Receive Pan	Off, On	01	
			1E	1	00 – 01	Receive Volume / Expression	Off, On	01	
			1F	1	00 – 01	Receive Ribbon Controller	Off, On	01	
			20	1	00 – 01	Receive Breath Controller	Off, On	01	
			21	1	00 – 01	Receive Foot Switch	Off, On	01	
			22	1	00 – 01	Receive Assignable Function 1	Off, On	01	
			23	1	00 – 01	Receive Assignable Function 2	Off, On	01	
			24	1	00	reserved		00	
			25	1	00 – 01	Receive Motion Seq Trigger	Off, On	01	
			26	1	00 – 01	Receive Portamento Switch	Off, On	01	
			27	1	00 – 01	Receive Portamento Time	Off, On	01	
			28	1	00 – 01	LFO Tempo Sync	Off, On	00	
			29	1	00 – 01	LFO Loop Switch	On, Off	00	

Address			Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
		2A	1	00 – 01	Transmit Pitch Bend	Off, On	01	
		2B	1	00 – 01	Transmit After Touch	Off, On	01	
		2C	1	00 – 01	Transmit PAT	Off, On	01	
		2D	1	00 – 01	Transmit Program Change	Off, On	01	
		2E	1	00 – 01	Transmit Bank Select	Off, On	01	
		2F	1	00 – 01	Transmit Control Change	Off, On	01	
		30	1	00 – 01	Transmit Assignable Knob 1	Off, On	01	
		31	1	00 – 01	Transmit Assignable Knob 2	Off, On	01	
		32	1	00 – 01	Transmit Assignable Knob 3	Off, On	01	
		33	1	00 – 01	Transmit Assignable Knob 4	Off, On	01	
		34	1	00 – 01	Transmit Assignable Knob 5	Off, On	01	
		35	1	00 – 01	Transmit Assignable Knob 6	Off, On	01	
		36	1	00 – 01	Transmit Assignable Knob 7	Off, On	01	
		37	1	00 – 01	Transmit Assignable Knob 8	Off, On	01	
		38	1	00 – 01	Transmit Foot Controller 1	Off, On	01	
		39	1	00 – 01	Transmit Foot Controller 2	Off, On	01	
		3A	1	00 – 01	Transmit Modulation Wheel	Off, On	01	
		3B	1	00 – 01	Transmit Sustain/Sostenuto	Off, On	01	
		3C	1	00 – 01	Transmit Pan	Off, On	01	
		3D	1	00 – 01	Transmit Volume/Expression	Off, On	01	
		3E	1	00 – 01	Transmit Ribbon Controller	Off, On	01	
		3F	1	00 – 01	Transmit Breath Controller	Off, On	01	
		40	1	00 – 01	Transmit Foot Switch	Off, On	01	
		41	1	00 – 01	Transmit Assignable Function 1	Off, On	01	
		42	1	00 – 01	Transmit Assignable Function 2	Off, On	01	
		43	1	00 – 01	reserved		01	
		44	1	00 – 01	Transmit Motion Seq Trigger	Off, On	01	
		45	1	00 – 01	Transmit Portamento Switch	Off, On	01	
		46	1	00 – 01	Transmit Portamento Time	Off, On	01	
		47	1	00 – 01	Part Arp Switch	Off, On	01	
		48	1	00 – 01	Arp Play Only	Off, On	00	
		49	1	00 – 01	Arp Fixed SD/BD	Off, On	00	Not available expect for Drum Part
		4A	1	00 – 01	Arp Loop	Off, On	01	
		4B	1	00 – 01	Arp Accent Start Quantize	Off, On	01	
		4C	1	00 – 01	Arp Random SFX	Off, On	01	
		4D	1	00 – 01	Arp Random SFX Key On Control	Off, On	01	
		4E	1	00 – 01	Slider Direction	Normal, Reverse	00	
		4F	1	00 – 01	Expression Type	Normal, Pre FX	00	
		50	1	00 – 01	Extended Element Switch	Off, On	00	

TOTAL SIZE = 81 51 (HEX)
p = Part number
0 – F Part 1 – 16 (Normal, Drum, FM-X, AN-X)

Address					Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
1p	00	02	00		2	00 00 – 00 10	Part Main Category	0 – 16 Refer to Performance Category List	00 10 (NoAsg)	Refer to Perfor- mance Cat- egory List.
			02		2	00 00 – 00 07	Part Sub Category	0 – 7 Refer to Performance Category List	00 00 (–)	Refer to Perfor- mance Cat- egory List.
			04		2	00 01 – 00 7F	Velocity Limit Low	1 – 127	00 01	
			06		2	00 01 – 00 7F	Velocity Limit High	1 – 127	00 7F	
			08		2	00 00 – 00 7F	Note Limit Low	C-2 – G8	00 00	
			0A		2	00 00 – 00 7F	Note Limit High	C-2 – G8	00 7F	
			0C		2	00 00 – 00 7F	Velocity Sensitivity Depth	0 – 127	00 40	
			0E		2	00 00 – 00 7F	Velocity Sensitivity Offset	0 – 127	00 40	
			10		2	00 00 – 00 7F	Volume	0 – 127	00 64	
			12		2	00 01 – 00 7F	Pan	L63 – C – R63	00 40	
			14		2	00 00 – 00 7F	Reverb Send	0 – 127	00 00	
			16		2	00 00 – 00 7F	Variation Send	0 – 127	00 00	
			18		2	00 00 – 00 7F	Dry Level	0 – 127	00 7F	
			1A		2	00 10 – 00 70	Envelope Follower Gain	–24dB – 0dB – +24dB	00 40	
			1C		2	00 00 – 00 13	Envelope Follower Attack	1ms – 40ms	00 10	
			1E		2	00 00 – 00 0F	Envelope Follower Release	10ms – 680ms	00 07	
			20		2	00 00 – 00 7F	Part Output Select	0: MainL&R, 8: AsgnL&R, 9-23: USB1&2, – USB29&30, 64 – 95: AsgnL, AsgnR, USB1, – USB30, 125: Off, 127: Drum	00 00	For parts other than the Drum Part, "Drum" is displayed as "MainL&R."
			22		2	00 00 – 00 7F	AEG Attack Time	–64 – +63	00 40	
			24		2	00 00 – 00 7F	AEG Decay Time	–64 – +63	00 40	
			26		2	00 00 – 00 7F	AEG Sustain Level	–64 – +63	00 40	Not available for Drum Part
			28		2	00 00 – 00 7F	AEG Release Time	–64 – +63	00 40	Not available for Drum Part
			2A		2	00 00 – 00 7F	FEG Attack Time	–64 – +63	00 40	Not available for Drum Part
			2C		2	00 00 – 00 7F	FEG Decay Time	–64 – +63	00 40	Not available for Drum Part
			2E		2	00 00 – 00 7F	FEG Sustain Level	–64 – +63	00 40	Not available for Drum Part
			30		2	00 00 – 00 7F	FEG Release Time	–64 – +63	00 40	Not available for Drum Part
			32		2	00 00 – 00 7F	FEG Depth	–64 – +63	00 40	Not available for Drum Part
			34		2	00 00 – 00 7F	Filter Cutoff Frequency	–64 – +63	00 40	
			36		2	00 00 – 00 7F	Filter Resonance/ Width	–64 – +63	00 40	
			38		2	00 00 – 07 7F	Assignable Knob 1 Value	0 – 1023	04 00	
			3A		2	00 00 – 07 7F	Assignable Knob 2 Value	0 – 1023	04 00	
			3C		2	00 00 – 07 7F	Assignable Knob 3 Value	0 – 1023	04 00	
			3E		2	00 00 – 07 7F	Assignable Knob 4 Value	0 – 1023	04 00	
			40		2	00 00 – 07 7F	Assignable Knob 5 Value	0 – 1023	04 00	
			42		2	00 00 – 07 7F	Assignable Knob 6 Value	0 – 1023	04 00	
			44		2	00 00 – 07 7F	Assignable Knob 7 Value	0 – 1023	04 00	
			46		2	00 00 – 07 7F	Assignable Knob 8 Value	0 – 1023	04 00	

Address					Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
				48	2	00 08 – 01 78	Swing	–120 – 0 – +120	01 00	
			4A		2	00 01 – 01 7F	Motion Seq Amplitude	–127 – +127	01 00	
			4C		2	00 0E – 00 72	Motion Seq Pulse Shape	–100, –98, – 0, – +98, +100	00 40	
			4E		2	00 01 – 01 7F	Motion Seq Smooth	–127 – +127	01 00	
			50		2	00 00 – 00 7F	Motion Seq Random	0 – 127	00 00	
			52		2	00 00 – 00 03	MotionSeq View Lane	1 – 4	00 00	
			54		2	00 00 – 00 01	Expression Curve	Normal, Organ	00 00	
			56		2	00 08 – 01 00	Element Count	8 – 128	00 08	
			58		2	00 00 – 00 10	Pitch Control Group	Off, A, B, – P	00 00	
			5A		2	00 00 – 00 10	Arpeggio Group	Off, A, B, – P	00 00	
			5C		2	00 00 – 00 0F	Note Range Group	bit 3: OFF, ON Group D bit 2: OFF, ON Group C bit 1: OFF, ON Group B bit 0: OFF, ON Group A	00 00	

TOTAL SIZE = 94 5E (HEX)
p = Part number
0 – F Part 1 – 16 (Normal, Drum, FM-X, AN-X)

Address					Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
1p	00	03	00		2	00 10 – 00 58	Pitch Bend Range Upper	–48 – +24	00 42	
			02		2	00 10 – 00 58	Pitch Bend Range Lower	–48 – +24	00 3E	
			04		2	00 00 – 01 7F	Detune	–12.8 – +12.7 [Hz]	01 00	
			06		2	00 28 – 00 58	Note Shift	–24 – +24 [semitones]	00 40	Not available for Drum Part
			08		2	00 00 – 00 7F	Portamento Time	0 – 127	00 40	Not available for Drum Part
			0A		2	00 00 – 00 01	Portamento Mode	Fingered, Full-time	00 01	Not available for Drum Part
			0C		2	00 00 – 00 03	Portamento Time Mode	Rate 1, Time 1, Rate 2, Time 2	00 00	Not available for Drum Part
			0E		2	00 00 – 01 14	Micro Tuning Scale	Equal Temperament, Pure Major, Pure Minor, Werckmeister, Kimberger, Valloti&Young, 1/4 Shift, 1/4 tone, 1/8 tone, Indian, Arabic 1, Arabic 2, Arabic 3, User1 – 8, Library1-1 – 16-8	00 00	Not available for Drum Part
			10		2	00 00 – 00 0B	Micro Tuning Root	C – B	00 00	Not available for Drum Part
			12		2	00 00 – 00 07	Legato Slope	0 – 7	00 00	Not available for Drum, FM- X and AN-X
			14		2	00 00 – 00 02	Insertion Connection Type	Parallel, Ins A□B, Ins B□A	00 01	Parallel is not available for FM-X and AN- X
			16		2	00 00 – 00 7F	Insertion to Reverb Send Level	0 – 127	00 00	Drum Part only.
			18		2	00 00 – 00 7F	Insertion to Variation Send Level	0 – 127	00 00	Drum Part only.
			1A		2	00 2E – 01 36	3-band EQ Low Frequency	50.1 – 2.00k	00 36	
			1C		2	00 20 – 00 60	3-band EQ Low Gain	–12.00dB – +12.00dB	00 40	

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			1E	2	00 53 – 01 71	3-band EQ Mid Frequency	139.7 – 10.1k	01 0D	
			20	2	00 20 – 00 60	3-band EQ Mid Gain	–12.00dB – +12.00dB	00 40	
			22	2	00 00 – 00 1F	3-band EQ Mid Q	0.7 – 10.3	00 00	
			24	2	01 03 – 01 7F	3-band EQ High Frequency	503.8 – 14.0k	01 67	
			26	2	00 20 – 00 60	3-band EQ High Gain	–12.00dB – +12.00dB	00 40	
			28	2	00 00 – 00 05	2-band EQ 1 Type	Thru, LPF, HPF, Low Shelf Hi Shelf, Peak/ Dip	00 00	
			2A	2	00 30 – 01 74	2-band EQ 1 Frequency	63.0 – 18.0k	00 30	
			2C	2	00 28 – 00 58	2-band EQ 1 Gain	–12.00dB – +12.00dB	00 40	
			2E	2	00 01 – 00 78	2-band EQ 1 Q	0.1 – 12.0	00 01	
			30	2	00 00 – 00 05	2-band EQ 2 Type	Thru, LPF, HPF, Low Shelf Hi Shelf, Peak/ Dip	00 00	
			32	2	00 30 – 01 74	2-band EQ 2 Frequency	63.0 – 18.0k	00 30	
			34	2	00 28 – 00 58	2-band EQ 2 Gain	–12.00dB – +12.00dB	00 40	
			36	2	00 01 – 00 78	2-band EQ 2 Q	0.1 – 12.0	00 01	
			38	2	00 28 – 00 58	2-band EQ Output Level	–12.00dB – +12.00dB	00 40	
			3A	2	00 00 – 00 11, 00 7F	Insertion-A Side Chain Part	0: Part 1, 1: Part 2 – 15: Part 16, 16: A/D, 17:Master 127: Off	00 7F	
			3C	2	00 00 – 00 11, 00 7F	Insertion-B Side Chain Part	0: Part 1, 1: Part 2 – 15: Part 16, 16: A/D, 17:Master 127: Off	00 7F	

TOTAL SIZE = 62 3E (HEX)
 p = Part number
 0 – F Part 1 – 16 (Normal, Drum, FM-X, AN-X)

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
1p	00	04	00	2	00 00 – 7F 7F	Insertion-A Type	Refer to Effect Parameter List	00 00	
			02	2	00 00 – 7F 7F	Insertion-A Preset Number		00 00	
			04	2	00 00 – 7F 7F	Insertion-A Parameter 1	Refer to Effect Parameter List	00 00	
			06	2	00 00 – 7F 7F	Insertion-A Parameter 2	"	00 00	
			08	2	00 00 – 7F 7F	Insertion-A Parameter3	"	00 00	
			0A	2	00 00 – 7F 7F	Insertion-A Parameter4	"	00 00	
			0C	2	00 00 – 7F 7F	Insertion-A Parameter5	"	00 00	
			0E	2	00 00 – 7F 7F	Insertion-A Parameter6	"	00 00	
			10	2	00 00 – 7F 7F	Insertion-A Parameter7	"	00 00	
			12	2	00 00 – 7F 7F	Insertion-A Parameter8	"	00 00	
			14	2	00 00 – 7F 7F	Insertion-A Parameter9	"	00 00	
			16	2	00 00 – 7F 7F	Insertion-A Parameter 10	"	00 00	
			18	2	00 00 – 7F 7F	Insertion-A Parameter 11	"	00 00	
			1A	2	00 00 – 7F 7F	Insertion-A Parameter 12	"	00 00	
			1C	2	00 00 – 7F 7F	Insertion-A Parameter 13	"	00 00	
			1E	2	00 00 – 7F 7F	Insertion-A Parameter 14	"	00 00	
			20	2	00 00 – 7F 7F	Insertion-A Parameter 15	"	00 00	
			22	2	00 00 – 7F 7F	Insertion-A Parameter 16	"	00 00	
			24	2	00 00 – 7F 7F	Insertion-A Parameter 17	"	00 00	
			26	2	00 00 – 7F 7F	Insertion-A Parameter 18	"	00 00	
			28	2	00 00 – 7F 7F	Insertion-A Parameter 19	"	00 00	

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			2A	2	00 00 – 7F 7F	Insertion-A Parameter 20	"	00 00	
			2C	2	00 00 – 7F 7F	Insertion-A Parameter 21	"	00 00	
			2E	2	00 00 – 7F 7F	Insertion-A Parameter 22	"	00 00	
			30	2	00 00 – 7F 7F	Insertion-A Parameter 23	"	00 00	
			32	2	00 00 – 7F 7F	Insertion-A Parameter 24	"	00 00	

TOTAL SIZE = 52 34 (HEX)
 p = Part number
 00 – 0F Part 1 – 16 (Normal, Drum, FM-X, AN-X)

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
1p	00	05	00	2	00 00 – 7F 7F	Insertion-B Type	Refer to Effect Parameter List	00 00	
			02	2	00 00 – 7F 7F	Insertion-B Preset Number		00 00	
			04	2	00 00 – 7F 7F	Insertion-B Parameter 1	Refer to Effect Parameter List	00 00	
			06	2	00 00 – 7F 7F	Insertion-B Parameter 2	"	00 00	
			08	2	00 00 – 7F 7F	Insertion-B Parameter 3	"	00 00	
			0A	2	00 00 – 7F 7F	Insertion-B Parameter 4	"	00 00	
			0C	2	00 00 – 7F 7F	Insertion-B Parameter 5	"	00 00	
			0E	2	00 00 – 7F 7F	Insertion-B Parameter 6	"	00 00	
			10	2	00 00 – 7F 7F	Insertion-B Parameter 7	"	00 00	
			12	2	00 00 – 7F 7F	Insertion-B Parameter 8	"	00 00	
			14	2	00 00 – 7F 7F	Insertion-B Parameter 9	"	00 00	
			16	2	00 00 – 7F 7F	Insertion-B Parameter 10	"	00 00	
			18	2	00 00 – 7F 7F	Insertion-B Parameter 11	"	00 00	
			1A	2	00 00 – 7F 7F	Insertion-B Parameter 12	"	00 00	
			1C	2	00 00 – 7F 7F	Insertion-B Parameter 13	"	00 00	
			1E	2	00 00 – 7F 7F	Insertion-B Parameter 14	"	00 00	
			20	2	00 00 – 7F 7F	Insertion-B Parameter 15	"	00 00	
			22	2	00 00 – 7F 7F	Insertion-B Parameter 16	"	00 00	
			24	2	00 00 – 7F 7F	Insertion-B Parameter 17	"	00 00	
			26	2	00 00 – 7F 7F	Insertion-B Parameter 18	"	00 00	
			28	2	00 00 – 7F 7F	Insertion-B Parameter 19	"	00 00	
			2A	2	00 00 – 7F 7F	Insertion-B Parameter 20	"	00 00	
			2C	2	00 00 – 7F 7F	Insertion-B Parameter 21	"	00 00	
			2E	2	00 00 – 7F 7F	Insertion-B Parameter 22	"	00 00	
			30	2	00 00 – 7F 7F	Insertion-B Parameter 23	"	00 00	
			32	2	00 00 – 7F 7F	Insertion-B Parameter 24	"	00 00	

TOTAL SIZE = 52 34 (HEX)
 p = Part number
 00 – 0F Part 1 – 16 (Normal, Drum, FM-X, AN-X)

Address					Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
1p	00	06	00		2	00 00 – 00 02	Arp Hold	Sync-Off, Off, On	00 01	
				02	2	00 00 – 00 0A	Arp Unit Multiply	50%, 66%, 75%, 100%, 133%, 150%, 200%, 266%, 300%, 400%, common	00 03	
				04	2	00 00 – 00 7F	Arp Note Limit Low	C-2 – G8	00 00	
				06	2	00 00 – 00 7F	Arp Note Limit High	C-2 – G8	00 7F	
				08	2	00 01 – 00 7F	Arp Velocity Limit Low	1 – 127	00 01	
				0A	2	00 01 – 00 7F	Arp Velocity Limit High	1 – 127	00 7F	
				0C	2	00 00 – 00 04	Arp Key Mode	Sort, Thru, Direct, Sort+Drct, Thru+Drct	00 00	
				0E	2	00 00 – 00 01	Arp Velocity Mode	Original, Thru	00 00	
				10	2	00 00 – 00 01	Arp Change Timing	Real-time, Measure	00 01	
				12	2	00 01 – 00 07	Arp Quantize Value	60, 80, 120, 160, 240, 320, 480	00 03	
				14	2	00 00 – 00 64	Arp Quantize Strength	0 – 100%	00 00	
				16	2	00 00 – 01 48	Arp Velocity Rate	0 – 200%	00 64	
				18	2	00 00 – 01 48	Arp Gate Time Rate	0 – 200%	00 64	
				1A	2	00 00 – 00 7F	Arp Accent Velocity Threshold	Off, 1 – 127	00 40	
				1C	2	00 3D – 00 43	Arp Octave Range	–3 – 0 – +3	00 40	
				1E	2	00 36 – 00 4A	Arp Output Octave Shift	–10 – 0 – +10	00 40	
				20	2	00 00 – 00 01	Arp Trigger Mode	Gate, Toggle	00 00	
				22	2	00 00 – 00 7F	Arp Random SFX Velocity Offset	–64 – 0 – +63	00 40	
				24	2	00 1C – 01 64	Arp 1 Velocity Rate Offset	–100 – 0 – +100	01 00	
				26	2	00 1C – 01 64	Arp 1 Gate Time Rate Offset	"	01 00	
				28	2	00 1C – 01 64	Arp 2 Velocity Rate Offset	"	01 00	
				2A	2	00 1C – 01 64	Arp 2 Gate Time Rate Offset	"	01 00	
				2C	2	00 1C – 01 64	Arp 3 Velocity Rate Offset	"	01 00	
				2E	2	00 1C – 01 64	Arp 3 Gate Time Rate Offset	"	01 00	
				30	2	00 1C – 01 64	Arp 4 Velocity Rate Offset	"	01 00	
				32	2	00 1C – 01 64	Arp 4 Gate Time Rate Offset	"	01 00	
				34	2	00 1C – 01 64	Arp 5 Velocity Rate Offset	"	01 00	
				36	2	00 1C – 01 64	Arp 5 Gate Time Rate Offset	"	01 00	
				38	2	00 1C – 01 64	Arp 6 Velocity Rate Offset	"	01 00	
				3A	2	00 1C – 01 64	Arp 6 Gate Time Rate Offset	"	01 00	
				3C	2	00 1C – 01 64	Arp 7 Velocity Rate Offset	"	01 00	
				3E	2	00 1C – 01 64	Arp 7 Gate Time Rate Offset	"	01 00	
				40	2	00 1C – 01 64	Arp 8 Velocity Rate Offset	"	01 00	
				42	2	00 1C – 01 64	Arp 8 Gate Time Rate Offset	"	01 00	
				44	2	00 00 – 7F 7F	Arp 1 Number	Preset (0=Off, 1 – 10239), User, Library (see the following chart)	00 00	
				46	2	00 00 – 7F 7F	Arp 2 Number	Preset (0=Off, 1 – 10239), User, Library (see the following chart)	00 00	
				48	2	00 00 – 7F 7F	Arp 3 Number	Preset (0=Off, 1 – 10239), User, Library (see the following chart)	00 00	
				4A	2	00 00 – 7F 7F	Arp 4 Number	Preset (0=Off, 1 – 10239), User, Library (see the following chart)	00 00	

Address					Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
				4C	2	00 00 – 7F 7F	Arp 5 Number	Preset (0=Off, 1 – 10239), User, Library (see the following chart)	00 00	
				4E	2	00 00 – 7F 7F	Arp 6 Number	Preset (0=Off, 1 – 10239), User, Library (see the following chart)	00 00	
				50	2	00 00 – 7F 7F	Arp 7 Number	Preset (0=Off, 1 – 10239), User, Library (see the following chart)	00 00	
				52	2	00 00 – 7F 7F	Arp 8 Number	Preset (0=Off, 1 – 10239), User, Library (see the following chart)	00 00	
TOTAL SIZE = 84					54 (HEX)					
p = Part number					Part 1 – 16 (Normal, Drum, FM-X, AN-X)					
00 – 0F										

Bank	Data Range	Description
User	12032 ... 12287	001 ... 256
Library1	12288 ... 12543	001 ... 256
Library2	12544 ... 12799	001 ... 256
Library3	12800 ... 13055	001 ... 256
Library4	13056 ... 13311	001 ... 256
Library5	13312 ... 13567	001 ... 256
Library6	13568 ... 13823	001 ... 256
Library7	13824 ... 14079	001 ... 256
Library8	14080 ... 14335	001 ... 256
Library9	14336 ... 14591	001 ... 256
Library10	14592 ... 14847	001 ... 256
Library11	14848 ... 15103	001 ... 256
Library12	15104 ... 15359	001 ... 256
Library13	15360 ... 15615	001 ... 256
Library14	15616 ... 15871	001 ... 256
Library15	15872 ... 16127	001 ... 256
Library16	16128 ... 16383	001 ... 256

Address					Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
1p	00	07	00		2	00 00 – 00 05	LFO Phase	0, 90, 120, 180, 240, 270	00 00	LFO-related parameters hereinafter are not available for Drum Part.
				02	2	00 00 – 00 0C	LFO Wave	Triangle, Triangle+, Saw Up, Saw Down, Squ1/4, Squ1/3, Square, Squ2/3, Squ3/4, Trapezoid, S/H1, S/H2, User	00 00	
				04	2	00 00 – 00 3F	LFO Speed	0 – 63	00 20	This is available only when Tempo Sync is set to Off.
				06	2	00 05 – 00 18	LFO Tempo Speed	5 – 24 (16th, 8th/3, 16th., 8th, 4th/3, 8th., 4th, 2th/3, 4th., 2nd, Whole/3, 2nd., 4thX4, 4thX5, 4thX6, 4thX7, 4thX8, 4thX16, 4thX32, 4thX64)	00 0B	This is available only when Tempo Sync is set to On.
				08	2	00 00 – 00 7F	LFO Delay Time	0 – 127	00 00	
				0A	2	00 00 – 00 7F	LFO Fade In Time	0 – 127	00 00	
				0C	2	00 00 – 00 7F	LFO Hold Time	0 – 126, Hold	00 7F	
				0E	2	00 00 – 00 7F	LFO Fade Out Time	0 – 127	00 40	
				10	2	00 00 – 00 02	LFO Key On Reset	Off, Each-On,1st-On	00 02	
				12	2	00 00 – 00 45	LFO Destination 1	0 – 69 (Refer to LFO Box Destination of Control List)	00 02	
				14	2	00 00 – 00 7F	LFO Depth 1	0 – 127	00 00	

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			16	2	00 00 – 00 45	LFO Destination 2	0 – 69 (Refer to LFO Box Destination of Control List)	00 04	
			18	2	00 00 – 00 7F	LFO Depth 2	0 – 127	00 00	
			1A	2	00 00 – 00 45	LFO Destination 3	0 – 69 (Refer to LFO Box Destination of Control List)	00 04	
			1C	2	00 00 – 00 7F	LFO Depth 3	0 – 127	00 00	
			1E	2	00 00 – 00 06	User LFO Cycle	2 steps, 3 steps, 4 steps, 6 steps, 8 steps, 12 steps, 16 steps	00 06	
			20	2	00 00 – 00 03	User LFO Slope	Off, Up, Down, Up&Down	00 00	
			22	2	00 00 – 00 7F	User LFO Step Value 1	–64 – +63	00 40	
			24	2	00 00 – 00 7F	User LFO Step Value 2	–64 – +63	00 40	
			26	2	00 00 – 00 7F	User LFO Step Value 3	–64 – +63	00 40	
			28	2	00 00 – 00 7F	User LFO Step Value 4	–64 – +63	00 40	
			2A	2	00 00 – 00 7F	User LFO Step Value 5	–64 – +63	00 40	
			2C	2	00 00 – 00 7F	User LFO Step Value 6	–64 – +63	00 40	
			2E	2	00 00 – 00 7F	User LFO Step Value 7	–64 – +63	00 40	
			30	2	00 00 – 00 7F	User LFO Step Value 8	–64 – +63	00 40	
			32	2	00 00 – 00 7F	User LFO Step Value 9	–64 – +63	00 40	
			34	2	00 00 – 00 7F	User LFO Step Value 10	–64 – +63	00 40	
			36	2	00 00 – 00 7F	User LFO Step Value 11	–64 – +63	00 40	
			38	2	00 00 – 00 7F	User LFO Step Value 12	–64 – +63	00 40	
			3A	2	00 00 – 00 7F	User LFO Step Value 13	–64 – +63	00 40	
			3C	2	00 00 – 00 7F	User LFO Step Value 14	–64 – +63	00 40	
			3E	2	00 00 – 00 7F	User LFO Step Value 15	–64 – +63	00 40	
			40	2	00 00 – 00 7F	User LFO Step Value 16	–64 – +63	00 40	
			42	2	00 00 – 00 7F	Part LFO Random Speed Depth	0 – 127	00 00	This is available only when Tempo Sync is set to Off.

TOTAL SIZE = 68 44 (HEX)
p = Part number
00 – 0F Part 1 – 16 (Normal, Drum, FM-X, AN-X)

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
1p	00	08	00	2	00 00 – 00 0F	MIDI Transmit Channel	Ch1 – 16	00 0p	This is available only when Part Mode is set to External.
				2	00 00 – 00 0F, 00 7F	MIDI Tx/Rx Channel	Ch1 – 16, Off	00 0p	This is available only when Part Mode is set to Internal and Keyboard Control Switch is set to Off.
			04	2	00 3D – 00 43	Zone Octave Shift	–3 – +3	00 40	
			06	2	00 35 – 00 4B	Zone Transpose	–11 – +11 (semitones)	00 40	
			08	2	00 01 – 00 7F	Zone Velocity Limit Low	1 – 127	00 01	
			0A	2	00 01 – 00 7F	Zone Velocity Limit High	1 – 127	00 7F	
			0C	2	00 00 – 00 7F	Zone Note Limit Low	C-2 – G8	00 00	

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			0E	2	00 00 – 00 7F	Zone Note Limit High	C-2 – G8	00 7F	
			10	2	00 00 – 00 7F	MIDI Volume	0 – 127	00 64	
			12	2	00 00 – 00 7F	MIDI Pan	L64 – C – R63	00 40	
			14	2	00 00 – 00 7F	MIDI Bank	0 – 127	00 00	
			16	2	00 00 – 00 7F	MIDI Bank LSB	0 – 127	00 00	
			18	2	00 00 – 00 7F	MIDI Program Number	1 – 128	00 00	

TOTAL SIZE = 26 1A (HEX)
p = Part number
0 – F Part 1 – 16 (Normal, Drum, FM-X, AN-X)

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
1p	00	09	00	2	00 00 – 00 01	Key Controller Set 1 Switch	Off, On	00 00	
			02	2	00 01 – 00 3A	Key Controller Set 1 Destination	1 – 58	00 01	
			04	2	00 00 – 00 11	Key Controller Set 1 Curve Bank	0 = Preset, 1 = User, 2 = Library1, – 17 = Library16	00 00	
			06	2	00 00 – 00 1F	Key Controller Set 1 Curve Type	0 – 31 (0 – 17 when Bank is set to Preset)	00 00	
			08	2	00 00 – 00 7F	Key Controller Set 1 Curve Parameter 1	0 – 127	00 05	Fixed to "0" except when Bank is set to Preset.
			0A	2	00 00 – 00 7F	Key Controller Set 1 Curve Parameter 2	0 – 127	00 00	Fixed to "0" except when Bank is set to Preset.
			0C	2	00 00 – 00 01	Key Controller Set 1 Polarity	Unipolar, Bipolar	00 00	
			0E	2	00 00 – 01 7F	Key Controller Set 1 Ratio	–128 – +127	01 40	
			00	2	00 00 – 00 01	Key Controller Set 2 Switch	Off, On	00 00	
			12	2	00 01 – 00 3A	Key Controller Set 2 Destination	1 – 58	00 01	
			14	2	00 00 – 00 11	Key Controller Set 2 Curve Bank	0 = Preset, 1 = User, 2 = Library1, – 17 = Library16	00 00	
			16	2	00 00 – 00 1F	Key Controller Set 2 Curve Type	0 – 31 (0 – 17 when Bank is set to Preset)	00 00	
			18	2	00 00 – 00 7F	Key Controller Set 2 Curve Parameter 1	0 – 127	00 05	Fixed to "0" except when Bank is set to Preset.
			1A	2	00 00 – 00 7F	Key Controller Set 2 Curve Parameter 2	0 – 127	00 00	Fixed to "0" except when Bank is set to Preset.
			1C	2	00 00 – 00 01	Key Controller Set 2 Polarity	Unipolar, Bipolar	00 00	
			1E	2	00 00 – 01 7F	Key Controller Set 2 Ratio	–128 – +127	01 40	
			00	2	00 00 – 00 01	Key Controller Set 3 Switch	Off, On	00 00	
			22	2	00 01 – 00 3A	Key Controller Set 3 Destination	1 – 58	00 01	
			24	2	00 00 – 00 11	Key Controller Set 3 Curve Bank	0 = Preset, 1 = User, 2 = Library1, – 17 = Library16	00 00	
			26	2	00 00 – 00 1F	Key Controller Set 3 Curve Type	0 – 31 (0 – 17 when Bank is set to Preset)	00 00	
			28	2	00 00 – 00 7F	Key Controller Set 3 Curve Parameter 1	0 – 127	00 05	Fixed to "0" except when Bank is set to Preset.
			2A	2	00 00 – 00 7F	Key Controller Set 3 Curve Parameter 2	0 – 127	00 00	Fixed to "0" except when Bank is set to Preset.
			2C	2	00 00 – 00 01	Key Controller Set 3 Polarity	Unipolar, Bipolar	00 00	

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			2E	2	00 00 – 01 7F	Key Controller Set 3 Ratio	–128 – +127	01 40	
			#R EF ↓	2	00 00 – 00 01	Key Controller Set 4 Switch	Off, On	00 00	
			32	2	00 01 – 00 3A	Key Controller Set 4 Destination	1 – 58	00 01	
			34	2	00 00 – 00 11	Key Controller Set 4 Curve Bank	0 = Preset, 1 = User, 2 = Library1, – 17 = Library16	00 00	
			36	2	00 00 – 00 1F	Key Controller Set 4 Curve Type	0 – 31 (0 – 17 when Bank is set to Preset)	00 00	
			38	2	00 00 – 00 7F	Key Controller Set 4 Curve Parameter 1	0 – 127	00 05	Fixed to “0” except when Bank is set to Preset.
			3A	2	00 00 – 00 7F	Key Controller Set 4 Curve Parameter 2	0 – 127	00 00	Fixed to “0” except when Bank is set to Preset.
			3C	2	00 00 – 00 01	Key Controller Set 4 Polarity	Unipolar, Bipolar	00 00	
			3E	2	00 00 – 01 7F	Key Controller Set 4 Ratio	–128 – +127	01 40	

TOTAL SIZE = 64 40 (HEX)
 p = Part number Part 1 – 16 (Normal, Drum, FM-X, AN-X)
 0 – F

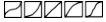
Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
1p	03	0c	00	2	00 00 – 00 01	Part Mute	Off, On	00 00	
			02	2	00 00 – 00 7F	Volume	0 – 127	00 64	
			04	2	00 01 – 00 7F	Pan	L63 – C – R63	00 40	
			06	2	00 00 – 00 7F	Reverb Send	0 – 127	00 00	
			08	2	00 00 – 00 7F	Variation Send	0 – 127	00 00	
			0A	2	00 00 – 00 7F	Dry Level	0 – 127	00 7F	
			0C	2	00 00 – 00 7F	Filter Cutoff Frequency	–64 – +63	00 40	When Scene is set to Offset, neither an FM-X Part nor an AN-X Part are available.
			0E	2	00 00 – 00 7F	Filter Resonance/ Width	–64 – +63	00 40	When Scene is set to Offset, neither an FM-X Part nor an AN-X Part are available.
			10	2	00 00 – 00 7F	FEG Depth	–64 – +63	00 40	When Scene is set to Offset, neither an FM-X Part nor an AN-X Part are available.
			12	2	00 00 – 00 7F	AEG Attack Time	–64 – +63	00 40	An AN-X Part is not available when Scene is set to Offset.
			14	2	00 00 – 00 7F	AEG Decay Time	–64 – +63	00 40	An AN-X Part is not available when Scene is set to Offset.
			16	2	00 00 – 00 7F	AEG Sustain Level	–64 – +63	00 40	An AN-X Part is not available when Scene is set to Offset.

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			18	2	00 00 – 00 7F	AEG Release Time	–64 – +63	00 40	An AN-X Part is not available when Scene is set to Offset.
			1A	2	00 00 – 07 7F	FM-X Filter Cutoff Frequency	0 – 1023	07 7F	An FM-X Part is available only when Scene is set to Absolute.
			1C	2	00 00 – 00 7F	FM-X Filter Resonance/Width	0 – 127	00 0A	An FM-X Part is available only when Scene is set to Absolute.
			1E	2	00 00 – 00 7F	FM-X FEG Depth	–64 – +63	00 68	An FM-X Part is available only when Scene is set to Absolute.
			20	2	00 00 – 07 7F	AN-X Filter Cutoff Frequency	14.3 – 21172.5 [Hz]	07 7F	An AX-X Part is available only when Scene is set to Absolute.
			22	2	00 00 – 01 7F	AN-X Filter Resonance	–6 – +42 [dB], 0.1875 [dB] step	00 00	An AX-X Part is available only when Scene is set to Absolute.
			24	2	00 40 – 03 40	AN-X FEG Depth	–9600 – +9600 [cent], 50 [cent] step	02 00	An AX-X Part is available only when Scene is set to Absolute.
			26	2	00 00 – 01 7F	AN-X AEG Attack Time	1 [ms] – 62 [s]	00 00	An AX-X Part is available only when Scene is set to Absolute.
			28	2	00 00 – 01 7F	AN-X AEG Decay Time	1 [ms] – 62 [s]	01 20	An AX-X Part is available only when Scene is set to Absolute.
			2A	2	00 00 – 03 7F	AN-X AEG Sustain Level	0 – 511	03 7F	An AX-X Part is available only when Scene is set to Absolute.
			2C	2	00 00 – 01 7F	AN-X AEG Release Time	1 [ms] – 62 [s]	01 20	An AX-X Part is available only when Scene is set to Absolute.
			2E	2	00 00 – 00 01	Keyboard Control Switch	Off, On	00 00	Fixed to “Off” for Part 9 or later.
			30	2	00 08 – 01 78	Swing	–120 – 0 – +120	01 00	
			32	2	00 00 – 00 0A	Arp Unit Multiply	50%, 66%, 75%, 100%, 133%, 150%, 200%, 266%, 300%, 400%, common	00 03	
			34	2	00 00 – 01 48	Arp Gate Time Rate	0 – 200%	00 64	
			36	2	00 00 – 01 48	Arp Velocity Rate	0 – 200%	00 64	
			38	2	00 01 – 01 7F	Motion Seq Amplitude Part Offset	–127 – +127	01 00	
			3A	2	00 0E – 00 72	Motion Seq Pulse Shape Part Offset	–100, –98, – 0, – +98, +100	00 40	
			3C	2	00 01 – 01 7F	Motion Seq Smoothness Part Offset	–127 – +127	01 00	
			3E	2	00 00 – 00 7F	Motion Seq Random	0 – 127	00 00	

TOTAL SIZE = 64 40 (HEX)
 p = Part number Part 1 – 16 (Normal, Drum, FM-X, AN-X)
 0 – F
 c = Scene number Scene 1 – 8
 0 – 7

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
1p	04	0k	00	1	00, 20 – 7E	Assignable Knob 1 Name 1	0, 32 – 126 (ASCII)	Assign 1-8	
			01	1	00, 20 – 7E	Assignable Knob 1 Name 2	0, 32 – 126 (ASCII)	(same as the knob number)	
			02	1	00, 20 – 7E	Assignable Knob 1 Name 3	0, 32 – 126 (ASCII)		
			03	1	00, 20 – 7E	Assignable Knob 1 Name 4	0, 32 – 126 (ASCII)		
			04	1	00, 20 – 7E	Assignable Knob 1 Name 5	0, 32 – 126 (ASCII)		
			05	1	00, 20 – 7E	Assignable Knob 1 Name 6	0, 32 – 126 (ASCII)		
			06	1	00, 20 – 7E	Assignable Knob 1 Name 7	0, 32 – 126 (ASCII)		
			07	1	00, 20 – 7E	Assignable Knob 1 Name 8	0, 32 – 126 (ASCII)		
			08	1	00, 20 – 7E	Assignable Knob 1 Name 9	0, 32 – 126 (ASCII)		
			09	1	00, 20 – 7E	Assignable Knob 1 Name 10	0, 32 – 126 (ASCII)		
			0A	1	00, 20 – 7E	Assignable Knob 1 Name 11	0, 32 – 126 (ASCII)		
			0B	1	00, 20 – 7E	Assignable Knob 1 Name 12	0, 32 – 126 (ASCII)		
			0C	1	00, 20 – 7E	Assignable Knob 1 Name 13	0, 32 – 126 (ASCII)		
			0D	1	00, 20 – 7E	Assignable Knob 1 Name 14	0, 32 – 126 (ASCII)		
			0E	1	00, 20 – 7E	Assignable Knob 1 Name 15	0, 32 – 126 (ASCII)		
			0F	1	00, 20 – 7E	Assignable Knob 1 Name 16	0, 32 – 126 (ASCII)		

TOTAL SIZE = 16 10 (HEX)
p = Part number
00 – 0F Part 1 – 16 (Normal, Drum, FM-X, AN-X)
k = knob number
00 – 07 Knob 1 – 8



Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
1p	05	bb	00	2	00 00 – 00 01	Controller Set Switch	Off, On	00 00	
			02	2	00 00 – 00 27	Controller Set Source	0 – 39 (Refer to Controller Box Source of Control List)	00 01	
			04	2	00 01 – 03 1D	Controller Set Destination	1 – 413 (Refer to Controller Box Destination of Control List)	00 01	
			06	2	00 00 – 00 11	Controller Set Curve Bank	0 = Preset, 1 = User, 2 = Library1, – 17= Library16	00 00	
			08	2	00 00 – 00 1F	Controller Set Curve Type	0 – 31 (0 – 17 when Bank is set to Preset)	00 00	
			0A	2	00 00 – 00 7F	Controller Set Curve Parameter 1	0 – 127	00 05	Fixed to "0" except when Bank is set to Preset.
			0C	2	00 00 – 00 7F	Controller Set Curve Parameter 2	0 – 127	00 00	Fixed to "0" except when Bank is set to Preset.
			0E	2	00 00 – 00 01	Controller Set Polarity	Unipolar, Bipolar	00 00	
			10	2	00 00 – 01 7F	Controller Set Ratio	–128 – +127	01 40	

TOTAL SIZE = 18 12 (HEX)
p = Part number
00 – 0F Part 1 – 16 (Normal, Drum, FM-X, AN-X)
bb = box number
00 – 7F Controller Box 1 – 32

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
1p	06	L0	00	1	00 – 01	Lane Switch	Off, On	00	
			01	1	00 – 01	Lane FX Receive	Off, On	01	
			02	1	00 – 01	Lane Trigger Receive	Off, On	00	
			03	1	00 – 01	Lane Loop	Off, On	01	

TOTAL SIZE = 4
p = Part number
00 – 0F Part 1 – 16 (Normal, Drum, FM-X, AN-X)
L = Lane number
00 – 03 Lane 1 – 4

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
1p	07	L0	00	2	00 00 – 00 04	Lane Sync	Off, Tempo, Beat, Arp, Lane1	00 00	Lane 1 is not available for Lane 1.
			02	2	00 00 – 00 7F	Lane Speed	0 – 127	00 3F	This is available only when Sync is set to Off.
			04	2	00 00 – 00 12	Lane Unit Multiply	50%, 66%, 75%, 100%, 133%, 150%, 200%, 266%, 300%, 400%, 600%, 800%, 1200%, 1600%, 2400%, 3200%, 6400%, Common, Arp	00 03	This is not available when Sync is set to Off.
			06	2	00 00 – 00 02	Lane Key On Reset	Off, Each-On, 1st-On	00 00	This is not available when Sync is set to Arp.
			08	2	00 01 – 00 7F	Lane Velocity Limit Low	1 – 127	00 01	
			0A	2	00 01 – 00 7F	Lane Velocity Limit High	1 – 127	00 7F	
			0C	2	00 00 – 00 7F	Lane Key On Delay Time Length	0 – 127	00 00	
			0E	2	00 00 – 00 20	Lane Key On Delay Step Length	0 – 32	00 00	
			10	2	00 00 – 00 7F	Lane Fade In Time Length	0 – 127	00 00	
			12	2	00 00 – 00 20	Lane Fade In Step Length	0 – 32	00 00	

TOTAL SIZE = 20 14 (HEX)
p = Part number
00 – 0F Part 1 – 16 (Normal, Drum, FM-X, AN-X)
L = Lane number
00 – 03 Lane 1 – 4

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
1p	08	Lm	00	2	00 00 – 00 7F	Lane Motion Seq Amplitude	0 – 127	00 7F	
			02	2	00 00 – 00 7F	Lane Motion Seq Smoothness	0 – 127	00 00	
			04	2	00 00 – 00 0F	Lane Motion Seq Length	1 – 16	00 0F	
			06	2	00 00 – 00 01	Lane Motion Seq Polarity	Unipolar, Bipolar	00 00	
			08	2	00 01 – 00 07	Motion Seq Grid	60, 80, 120, 160, 240, 320, 480	00 03	
			0A	2	00 00 – 00 0F	Lane Motion Seq Loop Start	1 – 16	00 00	This is not available when Loop is set to Off. Loop Start is less than or equal to Length.
			0C	2	00 00	reserved		00 00	
			0E	2	00 00 – 00 7F	Lane Motion Seq Step 1 Value	0 – 127	00 40	
			10	2	00 00 – 00 7F	Lane Motion Seq Step 2 Value	0 – 127	00 40	
			12	2	00 00 – 00 7F	Lane Motion Seq Step 3 Value	0 – 127	00 40	
			14	2	00 00 – 00 7F	Lane Motion Seq Step 4 Value	0 – 127	00 40	
			16	2	00 00 – 00 7F	Lane Motion Seq Step 5 Value	0 – 127	00 40	

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			18	2	00 00 – 00 7F	Lane Motion Seq Step 6 Value	0 – 127	00 40	
			1A	2	00 00 – 00 7F	Lane Motion Seq Step 7 Value	0 – 127	00 40	
			1C	2	00 00 – 00 7F	Lane Motion Seq Step 8 Value	0 – 127	00 40	
			1E	2	00 00 – 00 7F	Lane Motion Seq Step 9 Value	0 – 127	00 40	
			20	2	00 00 – 00 7F	Lane Motion Seq Step 10 Value	0 – 127	00 40	
			22	2	00 00 – 00 7F	Lane Motion Seq Step 11 Value	0 – 127	00 40	
			24	2	00 00 – 00 7F	Lane Motion Seq Step 12 Value	0 – 127	00 40	
			26	2	00 00 – 00 7F	Lane Motion Seq Step 13 Value	0 – 127	00 40	
			28	2	00 00 – 00 7F	Lane Motion Seq Step 14 Value	0 – 127	00 40	
			2A	2	00 00 – 00 7F	Lane Motion Seq Step 15 Value	0 – 127	00 40	
			2C	2	00 00 – 00 7F	Lane Motion Seq Step 16 Value	0 – 127	00 40	
			2E	2	00 00 – 00 03	Lane Motion Seq Step 1 Type	A, B, Reverse A, Reverse B	00 00	
			30	2	00 00 – 00 03	Lane Motion Seq Step 2 Type	A, B, Reverse A, Reverse B	00 00	
			32	2	00 00 – 00 03	Lane Motion Seq Step 3 Type	A, B, Reverse A, Reverse B	00 00	
			34	2	00 00 – 00 03	Lane Motion Seq Step 4 Type	A, B, Reverse A, Reverse B	00 00	
			36	2	00 00 – 00 03	Lane Motion Seq Step 5 Type	A, B, Reverse A, Reverse B	00 00	
			38	2	00 00 – 00 03	Lane Motion Seq Step 6 Type	A, B, Reverse A, Reverse B	00 00	
			3A	2	00 00 – 00 03	Lane Motion Seq Step 7 Type	A, B, Reverse A, Reverse B	00 00	
			3C	2	00 00 – 00 03	Lane Motion Seq Step 8 Type	A, B, Reverse A, Reverse B	00 00	
			3E	2	00 00 – 00 03	Lane Motion Seq Step 9 Type	A, B, Reverse A, Reverse B	00 00	
			40	2	00 00 – 00 03	Lane Motion Seq Step 10 Type	A, B, Reverse A, Reverse B	00 00	
			42	2	00 00 – 00 03	Lane Motion Seq Step 11 Type	A, B, Reverse A, Reverse B	00 00	
			44	2	00 00 – 00 03	Lane Motion Seq Step 12 Type	A, B, Reverse A, Reverse B	00 00	
			46	2	00 00 – 00 03	Lane Motion Seq Step 13 Type	A, B, Reverse A, Reverse B	00 00	
			48	2	00 00 – 00 03	Lane Motion Seq Step 14 Type	A, B, Reverse A, Reverse B	00 00	
			4A	2	00 00 – 00 03	Lane Motion Seq Step 15 Type	A, B, Reverse A, Reverse B	00 00	
			4C	2	00 00 – 00 03	Lane Motion Seq Step 16 Type	A, B, Reverse A, Reverse B	00 00	
			4E	2	00 00 – 00 11	Lane Motion Seq Step Curve A Bank	0 = Preset, 1 = User, 2 = Library1, – 17 = Library16	00 00	
			50	2	00 00 – 00 1F	Lane Motion Seq Step Curve A Type	0 – 31 (0 – 17 when Bank is set to Preset)	00 00	
			52	2	00 00 – 00 7F	Lane Motion Seq Step Curve A Parameter 1	0 – 127	00 05	
			54	2	00 00 – 00 7F	Lane Motion Seq Step Curve A Parameter 2	0 – 127	00 00	
			56	2	00 00 – 00 01	Lane Motion Seq Step Curve A Shape Control SW1	Off, On	00 01	
			58	2	00 00 – 00 01	Lane Motion Seq Step Curve A Shape Control SW2	Off, On	00 00	
			5A	2	00 00 – 00 11	Lane Motion Seq Step Curve B Bank	0 = Preset, 1 = User, 2 = Library1, – 17 = Library16	00 00	
			5C	2	00 00 – 00 1F	Lane Motion Seq Step Curve B Type	0 – 31 (0 – 17 when Bank is set to Preset)	00 00	
			5E	2	00 00 – 00 7F	Lane Motion Seq Step Curve B Parameter 1	0 – 127	00 05	
			60	2	00 00 – 00 7F	Lane Motion Seq Step Curve B Parameter 2	0 – 127	00 00	
			62	2	00 00 – 00 01	Lane Motion Seq Step Curve B Shape Control SW1	Off, On	00 01	

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			64	2	00 00 – 00 01	Lane Motion Seq Step Curve B Shape Control SW2	Off, On	00 00	

TOTAL SIZE = 102 66 (HEX)
p = Part number
00 – 0F Part 1 – 16 (Normal, Drum, FM-X, AN-X)
L = Lane number
00 – 03 Lane 1 – 4
m = sequence number
0 – 7 Sequence 1 – 8

MIDI PARAMETER CHANGE TABLE (NORMAL PART ELEMENT)

Group Number =7F 1C, Model ID = 0D

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
2p	00	ee	00	1	00 – 01	Element Switch	Off, On	01 (EL1 only)	
			01	1	00 – 01	Key On Delay Tempo Sync Switch	Off, On	00	
			02	1	00 – 01	Half Damper Switch	Off, On	00	
			03	1	00 – 01	LFO Box1 Switch	Off, On	01	
			04	1	00 – 01	LFO Box2 Switch	Off, On	01	
			05	1	00 – 01	LFO Box3 Switch	Off, On	01	
			06	1	00 – 01	LFO Speed Range	Normal, Extended	01	
			07	1	00 – 01	Controller Set 1 Switch	Off, On	01	
			08	1	00 – 01	Controller Set 2 Switch	Off, On	01	
			09	1	00 – 01	Controller Set 3 Switch	Off, On	01	
			0A	1	00 – 01	Controller Set 4 Switch	Off, On	01	
			0B	1	00 – 01	Controller Set 5 Switch	Off, On	01	
			0C	1	00 – 01	Controller Set 6 Switch	Off, On	01	
			0D	1	00 – 01	Controller Set 7 Switch	Off, On	01	
			0E	1	00 – 01	Controller Set 8 Switch	Off, On	01	
			0F	1	00 – 01	Controller Set 9 Switch	Off, On	01	
			10	1	00 – 01	Controller Set 10 Switch	Off, On	01	
			11	1	00 – 01	Controller Set 11 Switch	Off, On	01	
			12	1	00 – 01	Controller Set 12 Switch	Off, On	01	
			13	1	00 – 01	Controller Set 13 Switch	Off, On	01	
			14	1	00 – 01	Controller Set 14 Switch	Off, On	01	
			15	1	00 – 01	Controller Set 15 Switch	Off, On	01	
			16	1	00 – 01	Controller Set 16 Switch	Off, On	01	
			17	1	00 – 01	Controller Set 17 Switch	Off, On	01	
			18	1	00 – 01	Controller Set 18 Switch	Off, On	01	
			19	1	00 – 01	Controller Set 19 Switch	Off, On	01	
			1A	1	00 – 01	Controller Set 20 Switch	Off, On	01	
			1B	1	00 – 01	Controller Set 21 Switch	Off, On	01	
			1C	1	00 – 01	Controller Set 22 Switch	Off, On	01	
			1D	1	00 – 01	Controller Set 23 Switch	Off, On	01	
			1E	1	00 – 01	Controller Set 24 Switch	Off, On	01	
			1F	1	00 – 01	Controller Set 25 Switch	Off, On	01	
			20	1	00 – 01	Controller Set 26 Switch	Off, On	01	
			21	1	00 – 01	Controller Set 27 Switch	Off, On	01	
			22	1	00 – 01	Controller Set 28 Switch	Off, On	01	
			23	1	00 – 01	Controller Set 29 Switch	Off, On	01	
			24	1	00 – 01	Controller Set 30 Switch	Off, On	01	
			25	1	00 – 01	Controller Set 31 Switch	Off, On	01	
			26	1	00 – 01	Controller Set 32 Switch	Off, On	01	
			27	1	00 – 01	Key Controller Set 1 Switch	Off, On	01	
			28	1	00 – 01	Key Controller Set 2 Switch	Off, On	01	
			29	1	00 – 01	Key Controller Set 3 Switch	Off, On	01	
			2A	1	00 – 01	Key Controller Set 4 Switch	Off, On	01	

TOTAL SIZE = 36 24 (HEX)
p = Part number
0 – F Part 1 – 16 (Normal)
ee = Element number
0 – 127 Element 1 – 128 (Normal)

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
2p	01	ee	00	2	00 00 – 00 11	Wave Select	0=Preset, 1=User, 2 – 17=Library1 – 16	00 00	
			02	2	00 00 – 00 07	Element Group Number	1 – 8	00 00	
			04	2	00 01 – 3B 44	Wave Number	1 – 7620 (USR, Library: 1 – 1024)	00 06	
			06	2	00 01	(reserved) Receive Note Off	on	00 01	Fixed to "on"
			08	2	00 01	(reserved) Key Assign	1=multi	00 01	Fixed to "multi"
			0A	2	00 00	(reserved) Alternate Group	0=off	00 00	Fixed to "off"
			0C	2	00 01 – 00 7F	Element Pan	L63 – C – R63	00 40	
			0E	2	00 00 – 00 7F	Random Pan Depth	0 – 127	00 00	
			10	2	00 00 – 00 7F	Alternate Pan Depth	L64 – C – R63	00 40	
			12	2	00 00 – 00 7F	Scaling Pan Depth	–64 – +63	00 40	
			14	2	00 00 – 00 07	XA Control	Normal, Legato, Key Off, Cycle, Random, A.SW Off, A.SW1 On, A.SW2 On	00 00	

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			16	2	00 00 – 00 7F	Note Limit Low	C-2 – G8	00 00	
			18	2	00 00 – 00 7F	Note Limit High	C-2 – G8	00 7F	
			1A	2	00 01 – 00 7F	Velocity Limit Low	1 – 127	00 01	
			1C	2	00 01 – 00 7F	Velocity Limit High	1 – 127	00 7F	
			1E	2	00 00 – 00 7F	Velocity Cross Fade	0 – 127	00 00	
			20	2	00 00 – 00 7F	Key On Delay Time Length	0 – 127	00 00	This is available only when Tempo Sync is set to Off.
			22	2	00 00 – 00 02	Element Connection Switch	Thru, InsA, InsB	00 01	
			24	2	00 00	(reserved) Output Select	0=stereo out	00 00	Fixed to "stereo out"
			26	2	00 05 – 00 15	Key On Delay Note Length	5 – 21 (16th, 8th/3, 16th., 8th, 4th/3, 8th., 4th, 2th/3, 4th., 2nd, Whole/3, 2nd., 4thX4, 4thX5, 4thX6, 4thX7, 4thX8)	00 0B	This is available only when Tempo Sync is set to On.

TOTAL SIZE = 40 28 (HEX)
p = Part number
0 – F Part 1 – 16 (Normal)
ee = Element number
0 – 127 Element 1 – 128 (Normal)

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
2p	02	ee	00	2	00 00 – 00 7F	Element Level	0 – 127	00 7F	
			02	2	00 00 – 00 7F	Level Velocity Sensitivity	–64 – +63	00 40	
			04	2	00 00 – 00 7F	Level Velocity Offset	0 – 127	00 00	
			06	2	00 00 – 00 04	Level Sensitivity Key Curve	00 – 04	00 03	
			08	2	00 00 – 00 7F	AEG Attack Time	0 – 127	00 00	
			0A	2	00 00 – 00 7F	AEG Decay 1 Time	0 – 127	00 40	
			0C	2	00 00 – 00 7F	AEG Decay 2 Time	0 – 127	00 40	
			0E	2	00 00 – 00 7F	Half Damper Time	0 – 127	00 7F	
			10	2	00 00 – 00 7F	AEG Release Time	0 – 127	00 32	
			12	2	00 00 – 00 7F	AEG Initial Level	0 – 127	00 00	
			14	2	00 00 – 00 7F	AEG Attack Level	0 – 127	00 7F	
			16	2	00 00 – 00 7F	AEG Decay 1 Level	0 – 127	00 7F	
			18	2	00 00 – 00 7F	AEG Decay 2 Level	0 – 127	00 7F	
			1A	2	00 00 – 00 04	AEG Time Velocity Segment	Attack, Atk+Dcy, Decay, Atk+Rls, All	00 04	
			1C	2	00 00 – 00 7F	AEG Time Velocity Sensitivity	–64 – +63	00 40	
			1E	2	00 00 – 00 7F	AEG Time Key Follow Sensitivity	–64 – +63	00 40	
			20	2	00 00 – 00 7F	AEG Time Key Follow Center Note	C-2 – G8	00 18	
			22	2	00 00 – 00 7C	Level Scaling Break Point 1	C-2 – E8	00 24	BP1<BP 2<BP3< BP4
			24	2	00 01 – 00 7D	Level Scaling Break Point 2	C#-2 – F8	00 30	BP1<BP 2<BP3< BP4
			26	2	00 02 – 00 7E	Level Scaling Break Point 3	D-2 – F#8	00 3C	BP1<BP 2<BP3< BP4
			28	2	00 03 – 00 7F	Level Scaling Break Point 4	D#-2 – G8	00 48	BP1<BP 2<BP3< BP4
			2A	2	00 00 – 01 7F	Level Scaling Offset 1	–128 – +127	01 00	

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			2C	2	00 00 – 01 7F	Level Scaling Offset 2	"	01 00	
			2E	2	00 00 – 01 7F	Level Scaling Offset 3	"	01 00	
			30	2	00 00 – 01 7F	Level Scaling Offset 4	"	01 00	
			32	2	00 00 – 00 7F	Level Key Follow Sensitivity	–64 – +63	00 40	
			34	2	00 00 – 00 7F	AEG Time Key Follow Sensitivity Release Adjustment	0 – 127	00 40	

TOTAL SIZE = 54 36 (HEX)
p = Part number
0 – F Part 1 – 16 (Normal)
ee = Element number
0 – 127 Element 1 – 128 (Normal)

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
2p	03	ee	00	2	00 10 – 00 70	Coarse Tune	–48 – +48	00 40	
			02	2	00 00 – 00 7F	Fine Tune	–64 – +63	00 40	
			04	2	00 00 – 00 7F	Pitch Velocity Sensitivity	–64 – +63	00 40	
			06	2	00 00 – 00 7F	Random Pitch Depth	0 – 127	00 00	
			08	2	00 00 – 00 7F	Pitch Key Follow Sensitivity	–200% – +200%	00 60	
			0A	2	00 00 – 00 7F	Pitch Key Follow Sensitivity Center Note	C-2 – G8	00 3C	
			0C	2	00 00 – 00 7F	Fine Tune Key Follow Scaling Sensitivity	–64 – +63	00 40	
			0E	2	00 00 – 00 7F	PEG Hold Time	0 – 127	00 00	
			10	2	00 00 – 00 7F	PEG Attack Time	0 – 127	00 28	
			12	2	00 00 – 00 7F	PEG Decay 1 Time	0 – 127	00 40	
			14	2	00 00 – 00 7F	PEG Decay 2 Time	0 – 127	00 40	
			16	2	00 00 – 00 7F	PEG Release Time	0 – 127	00 40	
			18	2	00 00 – 01 7F	PEG Hold Level	–128 – +127 (–4800 – +4800 [cent])	01 00	
			1A	2	00 00 – 01 7F	PEG Attack Level	"	01 00	
			1C	2	00 00 – 01 7F	PEG Decay 1 Level	"	01 00	
			1E	2	00 00 – 01 7F	PEG Decay 2 Level	"	01 00	
			20	2	00 00 – 01 7F	PEG Release Level	"	01 00	
			22	2	00 00 – 00 7F	PEG Depth	–64 – +63	00 54	
			24	2	00 00 – 00 04	PEG Time Velocity Sensitivity Segment	Attack, Atk+Dcy, Decay, Atk+Ris, All	00 04	
			26	2	00 00 – 00 7F	PEG Time Velocity Sensitivity	–64 – +63	00 40	
			28	2	00 00 – 00 7F	PEG Depth Velocity Sensitivity	–64 – +63	00 40	
			2A	2	00 00 – 00 04	PEG Depth Velocity Sensitivity Curve	00 – 04	00 02	
			2C	2	00 00 – 00 7F	PEG Time Key Follow Sensitivity	–64 – +63	00 40	
			2E	2	00 00 – 00 7F	PEG Time Key Follow Sensitivity Center Note	C-2 – G8	00 3C	

TOTAL SIZE = 48 30 (HEX)
p = Part number
0 – F Part 1 – 16 (Normal)
ee = Element number
0 – 127 Element 1 – 128 (Normal)

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
2p	04	ee	00	2	00 00 – 00 15	Filter Type	LPF24D, LPF24A, LPF18, LPF18s, LPF12+HPF12, LPF6+HPF12, HPF24D, HPF12, BPF12D, BPFw, BPF6, BEF12, BEF6, DualLPF, DualHPF, DualBPF, DualBEF, LPF12+BPF6, Thru	00 04	
			02	2	00 00 – 07 7F	Filter Cutoff Frequency	0 – 1023	05 00	
			04	2	00 00 – 00 7F	Filter Cutoff Velocity Sensitivity	–64 – +63	00 40	
			06	2	00 00 – 00 7F	Filter Resonance/ Width	0 – 127	00 00	Not available for LPF6+HP F12.
			08	2	00 00 – 00 7F	Filter Resonance Velocity Sensitivity	–64 – +63	00 40	
			0A	2	00 00 – 07 7F	HPF Cutoff Frequency	0 – 1023	00 00	
			0C	2	00 00 – 01 7F	Distance	–128 – +127	01 00	This is available when Filter Type is set to Dual.
			0E	2	00 00 – 01 7F	Filter Gain	0 – 255	01 66	
			10	2	00 00 – 00 7F	FEG Hold Time	0 – 127	00 00	
			12	2	00 00 – 00 7F	FEG Attack Time	0 – 127	00 00	
			14	2	00 00 – 00 7F	FEG Decay 1 Time	0 – 127	00 40	
			16	2	00 00 – 00 7F	FEG Decay 2 Time	0 – 127	00 40	
			18	2	00 00 – 00 7F	FEG Release Time	0 – 127	00 50	
			1A	2	00 00 – 01 7F	FEG Hold Level	–128 – +127 (–9600 – +9600 [cent])	01 00	
			1C	2	00 00 – 01 7F	FEG Attack Level	"	01 7F	
			1E	2	00 00 – 01 7F	FEG Decay 1 Level	"	01 7F	
			20	2	00 00 – 01 7F	FEG Decay 2 Level	"	01 7F	
			22	2	00 00 – 01 7F	FEG Release Level	"	01 00	
			24	2	00 00 – 00 7F	FEG Depth	–64 – +63	00 68	
			26	2	00 00 – 00 04	FEG Time Velocity Sensitivity Segment	Attack, Atk+Dcy, Decay, Atk+Ris, All	00 04	
			28	2	00 00 – 00 7F	FEG Time Velocity Sensitivity	–64 – +63	00 40	
			2A	2	00 00 – 00 7F	FEG Depth Velocity Sensitivity	–64 – +63	00 40	
			2C	2	00 00 – 00 04	FEG Depth Velocity Sensitivity Curve	00 – 04 ▢▢▢▢▢	00 02	
			2E	2	00 00 – 00 7F	FEG Time Key Follow Sensitivity	–64 – +63	00 40	

			30	2	00 00 – 00 7F	FEG Time Key Follow Sensitivity Center Note	C-2 – G8	00 18	
			32	2	00 00 – 00 7C	Filter Cutoff Scaling Break Point 1	C-2 – E8	00 24	BP1<BP 2<BP3< BP4
			34	2	00 01 – 00 7D	Filter Cutoff Scaling Break Point 2	C#-2 – F8	00 30	BP1<BP 2<BP3< BP4
			36	2	00 02 – 00 7E	Filter Cutoff Scaling Break Point 3	D-2 – F#8	00 3C	BP1<BP 2<BP3< BP4
			38	2	00 03 – 00 7F	Filter Cutoff Scaling Break Point 4	D#-2 – G8	00 48	BP1<BP 2<BP3< BP4
			3A	2	00 00 – 01 7F	Filter Cutoff Scaling Offset 1	–128 – +127	01 00	
			3C	2	00 00 – 01 7F	Filter Cutoff Scaling Offset 2	"	01 00	
			3E	2	00 00 – 01 7F	Filter Cutoff Scaling Offset 3	"	01 00	
			40	2	00 00 – 01 7F	Filter Cutoff Scaling Offset 4	"	01 00	
			42	2	00 00 – 00 7F	Filter Cutoff Key Follow Sensitivity	–200% – +200%	00 4A	

MIDI PARAMETER CHANGE TABLE (DRUM VOICE KEY)

Group Number =7F 1C, Model ID = 0D

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			44	2	00 00 – 00 7F	HPF Cutoff Key Follow Sensitivity	–200% – +200%	00 40	
			46	2	00 00 – 00 05	EQ Type	2-band, P.EQ, Boost6, Boost12, Boost18, Thru	00 00	
			48	2	00 00 – 00 1F	EQ Q	0.7 – 10.3	00 00	This is available only when P.EQ is selected for EQ Type.
			4A	2	00 2E – 00 B6 00 53 – 01 7B	EQ 1 Frequency	50.1 – 2.00k (2-band) 139.7 – 12.9k (P.EQ)	00 36 (2- band) 01 1D (P.EQ)	This is available only when 2-band or P.EQ is selected for EQ Type.
			4C	2	00 20 – 00 60	EQ 1 Gain	–12.00dB – +12.00dB	00 40	
			4E	2	01 03 – 01 71	EQ 2 Frequency	503.8 – 10.1k	01 67	This is available only when 2-band is selected for EQ Type.
			50	2	00 20 – 00 60	EQ 2 Gain	–12.00dB – +12.00dB	00 40	
			52	2	00 00 – 00 02	LFO Wave	Saw, Triangle, Square	00 01	
			54	2	00 00 – 00 01	LFO Key On Reset	Off, On	00 01	
			56	2	00 00 – 00 7F	LFO Delay Time	0 – 127	00 00	
			58	2	00 00 – 00 3F	LFO Speed	0 – 63	00 26	This is available only when LFO Speed Range is set to Normal.
			5A	2	00 00 – 00 7F	LFO Amplitude Modulation Depth	0 – 127	00 00	
			5C	2	00 00 – 00 7F	LFO Pitch Modulation Depth	0 – 127	00 00	
			5E	2	00 00 – 00 7F	LFO Filter Modulation Depth	0 – 127	00 00	
			60	2	00 00 – 00 7F	LFO Fade In Time	0 – 127	00 00	
			62	2	00 00 – 00 05	Part LFO Phase Offset	+0, +90, +120, +180, +240, +270	00 00	
			64	2	00 00 – 00 7F	Part LFO Destination 1 Depth Ratio	0 – 127	00 7F	
			66	2	00 00 – 00 7F	Part LFO Destination 2 Depth Ratio	0 – 127	00 7F	
			68	2	00 00 – 00 7F	Part LFO Destination 3 Depth Ratio	0 – 127	00 7F	
			6A	2	00 00 – 03 1F	LFO Extended Speed	0 – 415	00 00	This is available only when LFO Speed Range is set to Extended

TOTAL SIZE = 106 6A (HEX)
p = Part number
0 – F Part 1 – 16 (Normal)
ee = Element number
0 – 127 Element 1 – 128 (Normal)

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
2p	10	kk	00	2	00 00 – 00 01	Drum Key Switch	Off, On	00 01	
			02	2	00 00 – 00 09	Wave Select	0=Preset, 1=User, 2 – 9=Library1 – 8	00 00	
			04	2	00 00 – 00 01	Receive Note Off	Off, On	00 00	
			06	2	00 00 – 00 01	Key Assign Mode	Single, Multi	00 01	
			08	2	00 00 – 00 7F	Alternate Group	0:Off, 1 – 127	00 00	
			0A	2	00 01 – 3B 44	Wave Number	1 – 7620 (USR, Library:1 – 1024)	28 1C	
			0C	2	00 01 – 00 7F	Pan	L63 – C – R63	00 40	
			0E	2	00 00 – 00 7F	Random Pan Depth	0 – 127	00 00	
			10	2	00 00 – 00 7F	Alternate Pan Depth	L64 – C – R63	00 40	
			12	2	00 00 – 00 7F	Drum Key Reverb Send Level	0 – 127	00 5A	
			14	2	00 00 – 00 7F	Drum Key Variation Send Level	0 – 127	00 00	
			16	2	00 00 – 00 02	Drum Key Connection Switch	Thru, InsA, InsB	00 00	
			18	2	00 00 – 00 5F	Drum Key Output Select	0: MainL&R, 8: AsgnL&R, 9-23: USB1&2 – USB29&30, 64 – 95: AsgnL, AsgnR, USB1 – USB30	00 00	
			1A	2	00 00 – 00 7F	Drum Key Level	0 – 127	00 7F	
			1C	2	00 00 – 00 7F	Level Velocity Sensitivity	–64 – +63	00 40	
			1E	2	00 00 – 00 7F	AEG Attack Time	0 – 127	00 00	
			20	2	00 00 – 00 7F	AEG Decay 1 Time	0 – 127	00 60	
			22	2	00 00 – 00 7F	AEG Decay 2 Time	0 – 126, Hold	00 50	
			24	2	00 00 – 00 7F	AEG Decay 1 Level	0 – 127	00 7F	
			26	2	00 10 – 00 70	Coarse Tune	–48 – +48	00 40	
			28	2	00 00 – 00 7F	Fine Tune	–64 – +63	00 40	
			2A	2	00 00 – 00 7F	Pitch Velocity Sensitivity	–64 – +63	00 40	
			2C	2	00 00 – 07 7F	LPF Cutoff Frequency	0 – 1023	07 7F	
			2E	2	00 00 – 00 7F	LPF Cutoff Velocity Sensitivity	–64 – +63	00 40	
			30	2	00 00 – 00 7F	LPF Resonance	0 – 127	00 00	
			32	2	00 00 – 07 7F	HPF Cutoff Frequency	0 – 1023	00 00	
			34	2	00 00 – 00 05	EQ Type	2 Band, P.EQ, Boost6, Boost12, Boost18, Thru	00 00	
			36	2	00 00 – 00 1F	EQ Q	0.7 – 10.3	00 00	
			38	2	00 2E – 00 B6 00 53 – 01 7B	EQ 1 Frequency	50.1 – 2.00k (2-band) 139.7 – 12.9k (P.EQ)	00 36 (2- band) 01 1D (P.EQ)	This is available only when 2-band or P.EQ is selected for EQ Type.
			3A	2	00 20 – 00 60	EQ 1 Gain	–12.00dB – +12.00dB	00 40	
			3C	2	01 03 – 01 71	EQ 2 Frequency	503.8 – 10.1k	01 67	This is available only when 2-band is selected for EQ Type.
			3E	2	00 20 – 00 60	EQ 2 Gain	–12.00dB – +12.00dB	00 40	

TOTAL SIZE = 64 40 (HEX)
p = Part number
00 – 0F Part 1 – 16 (Drum)
kk = Key number
00 – 48 Key C0 – C6

MIDI PARAMETER CHANGE TABLE (FM-X PART COMMON)

Group Number =7F 1C, Model ID = 0D

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
3p	00	00	00	2	00 00 – 00 7F	Random Pan Depth	0 – 127	00 00	
			02	2	00 00 – 00 7F	Alternate Pan Depth	L64 – C – R63	00 40	
			04	2	00 00 – 00 7F	Scaling Pan Depth	–64 – +63	00 40	
			06	2	00 00 – 00 7F	Key On Delay Time Length	0 – 127	00 00	This is available only when Tempo Sync is set to Off.
			08	2	00 00 – 00 01	Key On Delay Tempo Sync Switch	Off, On	00 00	
			0A	2	00 05 – 00 15	Key On Delay Note Length	5 – 21 (16th, 8th/3, 16th., 8th, 4th/3, 8th., 4th, 2th/3, 4th., 2nd, Whole/3, 2nd., 4thx4, 4thx5, 4thx6, 4thx7, 4thx8)	00 0E	This is available only when Tempo Sync is set to On.
			0C	2	00 00 – 00 7F	Pitch Velocity Sensitivity	–64 – +63	00 40	
			0E	2	00 00 – 00 7F	Random Pitch Depth	0 – 127	00 00	
			10	2	00 00 – 00 7F	Pitch Key Follow Sensitivity	–200% – +200%	00 60	
			12	2	00 00 – 00 7F	Pitch Key Follow Sensitivity Center Note	C-2 – G8	00 3C	
			14	2	00 00 – 00 64	PEG Initial Level	–50 – +50	00 32	
			16	2	00 00 – 00 64	PEG Attack Level	–50 – +50	00 32	
			18	2	00 00 – 00 64	PEG Decay 1 Level	–50 – +50	00 32	
			1A	2	00 00 – 00 64	PEG Decay 2 Level	–50 – +50	00 32	
			1C	2	00 00 – 00 64	PEG Release Level	–50 – +50	00 32	
			1E	2	00 00 – 00 63	PEG Attack Time	0 – 99	00 00	
			20	2	00 00 – 00 63	PEG Decay 1 Time	0 – 99	00 00	
			22	2	00 00 – 00 63	PEG Decay 2 Time	0 – 99	00 00	
			24	2	00 00 – 00 63	PEG Release Time	0 – 99	00 00	
			26	2	00 00 – 00 07	PEG Depth Velocity Sensitivity	0 – 7	00 00	
			28	2	00 00 – 00 03	PEG Depth	8 oct, 2 oct, 1 oct, 0.5 oct	00 00	
			2A	2	00 00 – 00 07	PEG Time Key Follow Sensitivity	0 – 7	00 00	
			2C	2	00 00 – 00 05	2nd LFO Wave	Triangle, Saw Down, Saw Up, Square, Sine, S/H	00 00	
			2E	2	00 00 – 00 63	2nd LFO Speed	0 – 99	00 1E	This is available only when LFO Speed Range is set to Normal.
			30	2	00 00 – 00 03	2nd LFO Phase	0°, 90°, 180°, 270°	00 00	
			32	2	00 00 – 00 63	2nd LFO Delay Time	0 – 99	00 00	
			34	2	00 00 – 00 01	2nd LFO Key On Reset	Off, On	00 00	
			36	2	00 00 – 00 63	2nd LFO Pitch Modulation Depth	0 – 99	00 00	
			38	2	00 00 – 00 63	2nd LFO Amplitude Modulation Depth	0 – 99	00 00	
			3A	2	00 00 – 00 63	2nd LFO Filter Modulation Depth	0 – 99	00 00	
			3C	2	00 00 – 00 57	Algorithm Number	1 – 88	00 44	
			3E	2	00 00 – 00 07	Feedback Level	0 – 7	00 00	
			40	2	00 00 – 00 01	LFO Speed Range	Normal, Extended	00 00	
			42	2	00 00 – 03 1F	LFO Extended Speed	0 – 415	00 00	This is available only when LFO Speed Range is set to Extended.

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			44	2	00 1D – 01 63	FM Depth	–99 – +99	01 00	
			46	2	00 1D – 01 63	FM Harmonics	–99 – +99	01 00	
			48	2	00 1D – 01 63	FM Attack	–99 – +99	01 00	
			4A	2	00 1D – 01 63	FM Decay	–99 – +99	01 00	
			4C	2	00 1D – 01 63	FM Sustain	–99 – +99	01 00	
			4E	2	00 1D – 01 63	FM Release	–99 – +99	01 00	
			50	2	00 1D – 01 63	FM Texture	–99 – +99	01 00	

TOTAL SIZE = 82

52 (HEX)

p = Part number

0 – F

Part 1 – 16 (FM-X)

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
3p	00	01	00	2	00 00 – 00 15	Filter Type	LPF24D, LPF24A, LPF18, LPF18s, LPF12+HPF12, LPF6+HPF12, HPF24D, HPF12, BPF12D, BPFw, BPF6, BEF12, BEF6, DualLPF, DualHPF, DualBPF, DualBEF, LPF12+BPF6, Thru	00 15	
			02	2	00 00 – 07 7F	Filter Cutoff Frequency	0 – 1023	07 7F	
			04	2	00 00 – 00 7F	Filter Cutoff Velocity Sensitivity	–64 – +63	00 40	
			06	2	00 00 – 00 7F	Filter Resonance/ Width	0 – 127	00 0A	Not available for LPF6+HPF 12.
			08	2	00 00 – 00 7F	Filter Resonance Velocity Sensitivity	–64 – +63	00 40	
			0A	2	00 00 – 07 7F	HPF Cutoff Frequency	0 – 1023	00 00	
			0C	2	00 00 – 01 7F	Distance	–128 – +127	01 00	This is available when Filter Type is set to Dual.
			0E	2	00 00 – 01 7F	Filter Gain	0 – 255	01 7F	
			10	2	00 00 – 00 7F	FEG Hold Time	0 – 127	00 00	
			12	2	00 00 – 00 7F	FEG Attack Time	0 – 127	00 00	
			14	2	00 00 – 00 7F	FEG Decay 1 Time	0 – 127	00 00	
			16	2	00 00 – 00 7F	FEG Decay 2 Time	0 – 127	00 00	
			18	2	00 00 – 00 7F	FEG Release Time	0 – 127	00 00	
			1A	2	00 00 – 01 7F	FEG Hold Level	–128 – +127 (–9600 – +9600 [cent])	01 00	
			1C	2	00 00 – 01 7F	FEG Attack Level	”	01 00	
			1E	2	00 00 – 01 7F	FEG Decay 1 Level	”	01 00	
			20	2	00 00 – 01 7F	FEG Decay 2 Level	”	01 00	
			22	2	00 00 – 01 7F	FEG Release Level	”	01 00	
			24	2	00 00 – 00 7F	FEG Depth	–64 – +63	00 68	
			26	2	00 00 – 00 04	FEG Time Velocity Sensitivity Segment	Attack, Atk+Dcy, Decay, Atk+Ris, All	00 04	
			28	2	00 00 – 00 7F	FEG Time Velocity Sensitivity	–64 – +63	00 40	
			2A	2	00 00 – 00 7F	FEG Depth Velocity Sensitivity	–64 – +63	00 40	
			2C	2	00 00 – 00 04	FEG Depth Velocity Sensitivity Curve	00 – 04 ▢▢▢▢▢▢	00 02	
			2E	2	00 00 – 00 7F	FEG Time Key Follow Sensitivity	–64 – +63	00 40	
			30	2	00 00 – 00 7F	FEG Time Key Follow Sensitivity Center Note	C-2 – G8	00 18	

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			32	2	00 00 – 00 7F	Filter Cutoff Key Follow Sensitivity	–200% – +200%	00 4A	
			34	2	00 00 – 00 7C	Filter Cutoff Scaling Break Point 1	C-2 – E8	00 24	BP1<BP2 <BP3<BP 4
			36	2	00 01 – 00 7D	Filter Cutoff Scaling Break Point 2	C#-2 – F8	00 30	BP1<BP2 <BP3<BP 4
			38	2	00 02 – 00 7E	Filter Cutoff Scaling Break Point 3	D-2 – F#8	00 3C	BP1<BP2 <BP3<BP 4
			3A	2	00 03 – 00 7F	Filter Cutoff Scaling Break Point 4	D#-2 – G8	00 48	BP1<BP2 <BP3<BP 4
			3C	2	00 00 – 01 7F	Filter Cutoff Scaling Offset 1	–128 – +127	01 00	
			3E	2	00 00 – 01 7F	Filter Cutoff Scaling Offset 2	"	01 00	
			40	2	00 00 – 01 7F	Filter Cutoff Scaling Offset 3	"	01 00	
			42	2	00 00 – 01 7F	Filter Cutoff Scaling Offset 4	"	01 00	
			44	2	00 00 – 00 7F	HPF Cutoff Key Follow Sensitivity	–200% – +200%	00 40	

TOTAL SIZE = 70 46 (HEX)
 p = Part number
 0 – F Part 1 – 16 (FM-X)

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
3p	01	0o	00	1	00 – 01	Controller Set 1 Switch	Off, On	01	
			01	1	00 – 01	Controller Set 2 Switch	Off, On	01	
			02	1	00 – 01	Controller Set 3 Switch	Off, On	01	
			03	1	00 – 01	Controller Set 4 Switch	Off, On	01	
			04	1	00 – 01	Controller Set 5 Switch	Off, On	01	
			05	1	00 – 01	Controller Set 6 Switch	Off, On	01	
			06	1	00 – 01	Controller Set 7 Switch	Off, On	01	
			07	1	00 – 01	Controller Set 8 Switch	Off, On	01	
			08	1	00 – 01	Controller Set 9 Switch	Off, On	01	
			09	1	00 – 01	Controller Set 10 Switch	Off, On	01	
			0A	1	00 – 01	Controller Set 11 Switch	Off, On	01	
			0B	1	00 – 01	Controller Set 12 Switch	Off, On	01	
			0C	1	00 – 01	Controller Set 13 Switch	Off, On	01	
			0D	1	00 – 01	Controller Set 14 Switch	Off, On	01	
			0E	1	00 – 01	Controller Set 15 Switch	Off, On	01	
			0F	1	00 – 01	Controller Set 16 Switch	Off, On	01	
			10	1	00 – 01	Controller Set 17 Switch	Off, On	01	
			11	1	00 – 01	Controller Set 18 Switch	Off, On	01	
			12	1	00 – 01	Controller Set 19 Switch	Off, On	01	
			13	1	00 – 01	Controller Set 20 Switch	Off, On	01	
			14	1	00 – 01	Controller Set 21 Switch	Off, On	01	
			15	1	00 – 01	Controller Set 22 Switch	Off, On	01	
			16	1	00 – 01	Controller Set 23 Switch	Off, On	01	
			17	1	00 – 01	Controller Set 24 Switch	Off, On	01	
			18	1	00 – 01	Controller Set 25 Switch	Off, On	01	
			19	1	00 – 01	Controller Set 26 Switch	Off, On	01	
			1A	1	00 – 01	Controller Set 27 Switch	Off, On	01	
			1B	1	00 – 01	Controller Set 28 Switch	Off, On	01	
			1C	1	00 – 01	Controller Set 29 Switch	Off, On	01	
			1D	1	00 – 01	Controller Set 30 Switch	Off, On	01	
			1E	1	00 – 01	Controller Set 31 Switch	Off, On	01	
			1F	1	00 – 01	Controller Set 32 Switch	Off, On	01	
			20	1	00 – 01	Operator Key Controller Set 1 Switch	Off, On	01	
			21	1	00 – 01	Operator Key Controller Set 2 Switch	Off, On	01	
			22	1	00 – 01	Operator Key Controller Set 3 Switch	Off, On	01	
			23	1	00 – 01	Operator Key Controller Set 4 Switch	Off, On	01	

TOTAL SIZE = 36 24 (HEX)
 p = Part number
 0 – F Part 1 – 16 (FM-X)
 o = Operator number
 0 – 7 Operator 1 – 8

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
3p	02	0o	00	2	00 00 – 00 01	Oscillator Key On Reset	Off, On	00 01	
			02	2	00 00 – 00 01	Oscillator Frequency Mode	Ratio, Fixed	00 00	
			04	2	00 00 – 00 1F	Tune Coarse	0 – 31	00 01	
			06	2	00 00 – 00 7F	Tune Fine	0 – 127	00 00	
			08	2	00 00 – 00 1E	Detune	–15 – 0 – 15	00 0F	
			0A	2	00 00 – 00 63	Pitch Key Follow Sensitivity	0 – 99	00 00	This is available when Oscillator Mode is set to Fixed.
			0C	2	00 00 – 00 0E	Pitch Velocity Sensitivity	–7 – 0 – +7	00 07	
			0E	2	00 00 – 00 06	Spectral Form	Sine, All 1, All 2, Odd 1, Odd 2, Res 1, Res 2	00 00	
			10	2	00 00 – 00 07	Spectral Skirt	0 – 7	00 00	
			12	2	00 00 – 00 63	Spectral Resonance	0 – 99	00 00	
			14	2	00 00 – 00 64	PEG Initial Level	–50 – 0 – +50	00 32	
			16	2	00 00 – 00 64	PEG Attack Level	–50 – 0 – +50	00 32	
			18	2	00 00 – 00 63	PEG Attack Time	0 – 99	00 00	
			1A	2	00 00 – 00 63	PEG Decay Time	0 – 99	00 00	
			1C	2	00 00 – 00 63	AEG Attack Level	0 – 99	00 63	
			1E	2	00 00 – 00 63	AEG Decay 1 Level	0 – 99	00 63	
			20	2	00 00 – 00 63	AEG Decay 2 Level	0 – 99	00 63	

			22	2	00 00 – 00 63	AEG Release (Hold) Level	0 – 99	00 00	
			24	2	00 00 – 00 63	AEG Attack Time	0 – 99	00 00	
			26	2	00 00 – 00 63	AEG Decay 1 Time	0 – 99	00 00	
			28	2	00 00 – 00 63	AEG Decay 2 Time	0 – 99	00 00	
			2A	2	00 00 – 00 63	AEG Release Time	0 – 99	00 28	
			2C	2	00 00 – 00 63	AEG Hold Time	0 – 99	00 00	
			2E	2	00 00 – 00 07	AEG Time Key Follow Sensitivity	0 – 7	00 00	

			30	2	00 00 – 00 63	Operator Level	0 – 99	00 00	When Operator number is "7," the initial value is 00 55.
			32	2	00 00 – 00 63	Level Scaling Break Point	A-1 – C8	00 27	
			34	2	00 00 – 00 63	Level Scaling Low Depth	0 – 99	00 00	
			36	2	00 00 – 00 63	Level Scaling High Depth	0 – 99	00 00	
			38	2	00 00 – 00 03	Level Scaling Low Curve	–Linear, –Exp, +Exp, +Linear	00 00	
			3A	2	00 00 – 00 03	Level Scaling High Curve	–Linear, –Exp, +Exp, +Linear	00 00	
			3C	2	00 00 – 00 0E	Level Velocity Sensitivity	–7 – 0 – +7	00 07	
			3E	2	00 00 – 00 07	2nd LFO Pitch Modulation Depth Offset	0 – 7	00 03	
			40	2	00 00 – 00 07	2nd LFO Amplitude Modulation Depth Offset	0 – 7	00 03	
			42	2	00 00 – 00 0E	Pitch Controller Sensitivity	–7 – 0 – 7	00 07	
			44	2	00 00 – 00 0E	Level Controller Sensitivity	–7 – 0 – 7	00 07	

TOTAL SIZE = 70 46
 p = Part number
 0 – F Part 1 – 16 (FM-X)
 o = Operator number
 0 – 7 Operator 1 – 8

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
7p	01	0o	00	2	00 00 – 18 7F	Operator Ratio		00 00	
			02	2	00 00 – 15 7F	Operator Frequency		00 00	

TOTAL SIZE = 404

p = Part number

0 – F

o = Operator number

0 – 7

Part 1 – 16 (FM-X)

Operator 1 – 8

MIDI PARAMETER CHANGE TABLE (AN-X PART)

Group Number =7F 1C, Model ID = 0D

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
4p	00	00	00	2	00 00 – 00 7F	Random Pan Depth	0 – 127	00 00	
			02	2	00 00 – 00 7F	Alternate Pan Depth	L64 – C – R63	00 40	
			04	2	00 00 – 00 7F	Scaling Pan Depth	–64 – +63	00 40	
			06	2	00 00 – 00 7F	Key On Delay Time Length	0 – 127	00 00	
			08	2	00 00 – 00 01	Key On Delay Tempo Sync Switch	Off, On	00 00	
			0A	2	00 05 – 00 15	Key On Delay Note Length	5 – 21 (16th, 8th, 3, 16th., 8th, 4th, 3, 8th., 4th, 2th, 3, 4th., 2nd, Whole, 3, 2nd., 4thX4, 4thX5, 4thX6, 4thX7, 4thX8)	00 0E	
			0C	2	00 00 – 00 02	Unison	Off, 2, 4	00 00	
			0E	2	00 00 – 00 0F	Unison Detune	0 – 15	00 00	
			10	2	00 00 – 00 0F	Unison Spread	0 – 15	00 00	
			12	2	00 01	reserved		00 01	
			14	2	00 00 – 00 03	OSC Reset	Off, Phase, Tune, Full	00 00	
				2	00 00 – 00 7F	Voltage Drift	0 – 127	00 40	
			18	2	00 00 – 01 48	Ageing	–100 – 0 – +100	00 64	
			1A	2	00 00 – 01 7F	Pitch EG Attack Time	0 – 255	00 00	
			1C	2	00 00 – 01 7F	Pitch EG Decay Time	0 – 255	01 20	
			1E	2	00 00 – 03 7F	Pitch EG Sustain Level	0 – 511	00 00	
			20	2	00 00 – 01 7F	Pitch EG Release Time	0 – 255	00 73	
			22	2	00 01 – 03 7F	Pitch EG Time Velocity Sensitivity	–255 – 0 – +255	02 00	
			24	2	00 00 – 00 04	Pitch LFO Wave	Saw, Square, Triangle, Sine, Random	00 02	
			26	2	00 00 – 03 1F	Pitch LFO Speed	0 – 415	01 50	
			28	2	00 00 – 00 01	Pitch LFO Key On Reset	Off, On	00 00	
			2A	2	00 00 – 00 0F	Pitch LFO Phase	0, 30, 45, 60, 90, 120, 135, 150, 180, 210, 225, 240, 270, 300, 315, 330 [°]	00 00	
			2C	2	00 00 – 00 7F	Pitch LFO Delay Time	0 – 127	00 00	
			2E	2	00 00 – 01 56	Pitch LFO Fade In Time	0 – 214	00 00	
			30	2	00 00 – 00 7F	Noise Generator Tone	0 – 64 – 127	00 40	
			32	2	00 00 – 00 01	Noise Generator Out Select	Filter, Amp	00 00	
			34	2	00 00 – 03 7F	Noise Generator Out Level	0 – 511	00 00	
			36	2	00 01 – 03 7F	Noise Generator Out Level Velocity Sensitivity	–255 – 0 – +255	02 00	
			38	2	00 00 – 01 7F	Filter Cutoff EG Attack Time	0 – 255	00 00	
			3A	2	00 00 – 01 7F	Filter Cutoff EG Decay Time	0 – 255	01 20	
			3C	2	00 00 – 03 7F	Filter Cutoff EG Sustain Level	0 – 511	00 00	
			3E	2	00 00 – 01 7F	Filter Cutoff EG Release Time	0 – 255	01 20	
			40	2	00 01 – 03 7F	Filter Cutoff EG Time Velocity Sensitivity	–255 – 0 – +255	02 00	
			42	2	00 00 – 00 04	Filter Cutoff LFO Wave	Saw, Square, Triangle, Sine, Random	00 02	
			44	2	00 00 – 03 1F	Filter Cutoff LFO Speed	0 – 415	01 50	
			46	2	00 00 – 00 01	Filter Cutoff LFO Key On Reset	Off, On	00 00	
			48	2	00 00 – 00 0F	Filter Cutoff LFO Phase	0, 30, 45, 60, 90, 120, 135, 150, 180, 210, 225, 240, 270, 300, 315, 330 [°]	00 00	
			4A	2	00 00 – 00 7F	Filter Cutoff LFO Delay Time	0 – 127	00 00	
			4C	2	00 00 – 01 56	Filter Cutoff LFO Fade In Time	0 – 214	00 00	

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			4E	2	00 00 – 03 7F	Amplitude Level	0 – 511	03 2F	
			50	2	00 01 – 03 7F	Amplitude Level Velocity Sensitivity	–255 – 0 – +255	02 00	
			52	2	00 01 – 01 7F	Amplitude Level LFO Depth	–127 – +127	01 00	
			54	2	00 00 – 00 7F	Amplitude Level Key Follow	0 – 127	00 00	
			56	2	00 00 – 00 50	Amplitude Saturator Drive	0.0 – 60.0 [dB], 0.75 [dB] step	00 00	
			58	2	00 00 – 01 7F	Amplitude EG Attack Time	0 – 255	00 00	
			5A	2	00 00 – 01 7F	Amplitude EG Decay Time	0 – 255	00 73	
			5C	2	00 00 – 03 7F	Amplitude EG Sustain Level	0 – 511	03 7F	
			5E	2	00 00 – 01 7F	Amplitude EG Release Time	0 – 255	01 20	
			60	2	00 01 – 03 7F	Amplitude EG Time Velocity Sensitivity	–255 – 0 – +255	02 00	
			62	2	00 00 – 00 04	Amplitude LFO Wave	Saw, Square, Triangle, Sine, Random	00 02	
			64	2	00 00 – 03 1F	Amplitude LFO Speed	0 – 415	01 50	
			66	2	00 00 – 00 01	Amplitude LFO Key On Reset	Off, On	00 00	
			68	2	00 00 – 00 0F	Amplitude LFO Phase	0, 30, 45, 60, 90, 120, 135, 150, 180, 210, 225, 240, 270, 300, 315, 330 [°]	00 00	
			6A	2	00 00 – 00 7F	Amplitude LFO Delay Time	0 – 127	00 00	
			6C	2	00 00 – 01 56	Amplitude LFO Fade In Time	0 – 214	00 00	

TOTAL SIZE = 110 6E (HEX)
p = Part number
0 – F Part 1 – 16 (AN-X)

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
4p	01	0o	00	1	00 – 01	Oscillator Controller Set 1 Switch	Off, On	01	
			01	1	00 – 01	Oscillator Controller Set 2 Switch	Off, On	01	
			02	1	00 – 01	Oscillator Controller Set 3 Switch	Off, On	01	
			03	1	00 – 01	Oscillator Controller Set 4 Switch	Off, On	01	
			04	1	00 – 01	Oscillator Controller Set 5 Switch	Off, On	01	
			05	1	00 – 01	Oscillator Controller Set 6 Switch	Off, On	01	
			06	1	00 – 01	Oscillator Controller Set 7 Switch	Off, On	01	
			07	1	00 – 01	Oscillator Controller Set 8 Switch	Off, On	01	
			08	1	00 – 01	Oscillator Controller Set 9 Switch	Off, On	01	
			09	1	00 – 01	Oscillator Controller Set 10 Switch	Off, On	01	
			0A	1	00 – 01	Oscillator Controller Set 11 Switch	Off, On	01	
			0B	1	00 – 01	Oscillator Controller Set 12 Switch	Off, On	01	
			0C	1	00 – 01	Oscillator Controller Set 13 Switch	Off, On	01	
			0D	1	00 – 01	Oscillator Controller Set 14 Switch	Off, On	01	
			0E	1	00 – 01	Oscillator Controller Set 15 Switch	Off, On	01	
			0F	1	00 – 01	Oscillator Controller Set 16 Switch	Off, On	01	
			10	1	00 – 01	Oscillator Controller Set 17 Switch	Off, On	01	
			11	1	00 – 01	Oscillator Controller Set 18 Switch	Off, On	01	
			12	1	00 – 01	Oscillator Controller Set 19 Switch	Off, On	01	
			13	1	00 – 01	Oscillator Controller Set 20 Switch	Off, On	01	
			14	1	00 – 01	Oscillator Controller Set 21 Switch	Off, On	01	
			15	1	00 – 01	Oscillator Controller Set 22 Switch	Off, On	01	
			16	1	00 – 01	Oscillator Controller Set 23 Switch	Off, On	01	

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
			17	1	00 – 01	Oscillator Controller Set 24 Switch	Off, On	01	
			18	1	00 – 01	Oscillator Controller Set 25 Switch	Off, On	01	
			19	1	00 – 01	Oscillator Controller Set 26 Switch	Off, On	01	
			1A	1	00 – 01	Oscillator Controller Set 27 Switch	Off, On	01	
			1B	1	00 – 01	Oscillator Controller Set 28 Switch	Off, On	01	
			1C	1	00 – 01	Oscillator Controller Set 29 Switch	Off, On	01	
			1D	1	00 – 01	Oscillator Controller Set 30 Switch	Off, On	01	
			1E	1	00 – 01	Oscillator Controller Set 31 Switch	Off, On	01	
			1F	1	00 – 01	Oscillator Controller Set 32 Switch	Off, On	01	
			20	1	00 – 01	Oscillator Key Controller Set 1 Switch	Off, On	01	
			21	1	00 – 01	Oscillator Key Controller Set 2 Switch	Off, On	01	
			22	1	00 – 01	Oscillator Key Controller Set 3 Switch	Off, On	01	
			23	1	00 – 01	Oscillator Key Controller Set 4 Switch	Off, On	01	

TOTAL SIZE = 36 24
o = Oscillator number
0 – 2 Oscillator 1 – 3
p = Part number
0 – F Part 1 – 16 (AN-X)

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
4p	02	0o	00	2	00 00 – 00 04	Oscillator Wave	Saw1, Saw2, Square, Triangle, Sine	00 00 (OSC 1, 2) 00 04 (OSC 3)	
			02	2	00 00 – 00 06	Oscillator Oclave	64', 32', 16', 8', 4', 2', 1'	00 03	
			04	2	00 00 – 07 70	Oscillator Pitch	–1200 – 0 – +1200 [cent]	03 78	
			06	2	00 00 – 03 6E	Oscillator Pitch EG Depth	–4800 – 0 – +4800 [cent]	01 77	
			08	2	00 01 – 03 7F	Oscillator Pitch EG Depth Velocity Sensitivity	–255 – 0 – +255	02 00	
			0A	2	00 00 – 03 6E	Oscillator Pitch LFO Depth	–4800 – 0 – +4800 [cent]	01 77	
			0C	2	00 00 – 01 40	Oscillator Self Sync Pitch	0 – 4800 [cent] 25 [cent] step	00 00	
			0E	2	00 01 – 03 7F	Oscillator Self Sync Pitch Velocity Sensitivity	–255 – 0 – +255	02 00	
			10	2	00 40 – 03 40	Oscillator Self Sync EG Depth	–4800 – 0 – 4800 [cent], 25 [cent] step	02 00	
			12	2	00 40 – 03 40	Oscillator Self Sync LFO Depth	–4800 – 0 – 4800 [cent], 25 [cent] step	02 00	
			14	2	00 00 – 01 7F	Oscillator Pulse Width	1.0% – 50.0% – 99.0%	01 00	
			16	2	00 01 – 03 7F	Oscillator Pulse Width Velocity Sensitivity	–255 – 0 – +255	02 00	
			18	2	00 01 – 01 7F	Oscillator Pulse Width EG Depth	–127 – 0 – +127	01 00	
			1A	2	00 01 – 01 7F	Oscillator Pulse Width LFO Depth	–127 – 0 – +127	01 00	
			1C	2	00 00 – 01 7F	Oscillator Wave Shaper	0 – 255	00 00	This is not available when Wave is set to Square.
			1E	2	00 01 – 03 7F	Oscillator Wave Shaper Velocity Sensitivity	–255 – 0 – +255	02 00	This is not available when Wave is set to Square.

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
			20	2	00 01 – 01 7F	Oscillator Wave Shaper EG Depth	–127 – 0 – +127	01 00	This is not available when Wave is set to Square.
			22	2	00 01 – 01 7F	Oscillator Wave Shaper LFO Depth	–127 – 0 – +127	01 00	This is not available when Wave is set to Square.
			24	2	00 00 – 01 7F	Oscillator FM Level	0 – 255	00 00	Not available for OSC3
			26	2	00 01 – 03 7F	Oscillator FM Level Velocity Sensitivity	–255 – 0 – +255	02 00	Not available for OSC3
			28	2	00 00 – 01 7F	Oscillator Ring Level	0 – 255	00 00	Not available for OSC3
			2A	2	00 01 – 03 7F	Oscillator Ring Level Velocity Sensitivity	–255 – 0 – +255	02 00	Not available for OSC3
			2C	2	00 00 – 00 01	Oscillator Out Select	Filter, Amp	00 00	
			2E	2	00 00 – 00 01	Oscillator Out Invert Enable	Off, On	00 00	
			30	2	00 00 – 03 7F	Oscillator Out Level	0 – 511	03 7F (OSC1) 00 00 (OSC 2, 3)	
			32	2	00 01 – 03 7F	Oscillator Out Level Velocity Sensitivity	–255 – 0 – +255	02 00	
			34	2	00 00 – 01 7F	Oscillator EG Attack Time	0 – 255	00 00	
			36	2	00 00 – 01 7F	Oscillator EG Decay Time	0 – 255	01 20	
			38	2	00 00 – 03 7F	Oscillator EG Sustain Level	0 – 511	00 00	
			3A	2	00 00 – 01 7F	Oscillator EG Release Time	0 – 255	01 20	
			3C	2	00 00 – 00 04	Oscillator LFO Wave	Saw, Square, Triangle, Sine, Random	00 02	
			3E	2	00 00 – 03 1F	Oscillator LFO Speed	0 – 415	01 50	
			40	2	00 00 – 00 01	Oscillator LFO Key On Reset	Off, On	00 00	
			42	2	00 00 – 00 0F	Oscillator LFO Phase	0, 30, 45, 60, 90, 120, 135, 150, 180, 210, 225, 240, 270, 300, 315, 330[°]	00 00	
			44	2	00 00 – 00 7F	Oscillator LFO Delay Time	0 – 127	00 00	
			46	2	00 00 – 01 56	Oscillator LFO Fade In Time	0 – 214	00 00	

TOTAL SIZE = 72 48 (HEX)
 o = Oscillator number
 0 – 2 Oscillator 1 – 3
 p = Part number
 0 – F Part 1 – 16 (AN-X)

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
4p	03	0f	00	1	00 – 01	Filter Controller Box1 Switch	Off, On	01	
			01	1	00 – 01	Filter Controller Box2 Switch	Off, On	01	
			02	1	00 – 01	Filter Controller Box3 Switch	Off, On	01	
			03	1	00 – 01	Filter Controller Box4 Switch	Off, On	01	
			04	1	00 – 01	Filter Controller Box5 Switch	Off, On	01	
			05	1	00 – 01	Filter Controller Box6 Switch	Off, On	01	
			06	1	00 – 01	Filter Controller Box7 Switch	Off, On	01	
			07	1	00 – 01	Filter Controller Box8 Switch	Off, On	01	
			08	1	00 – 01	Filter Controller Box9 Switch	Off, On	01	
			09	1	00 – 01	Filter Controller Box10 Switch	Off, On	01	
			0A	1	00 – 01	Filter Controller Box11 Switch	Off, On	01	
			0B	1	00 – 01	Filter Controller Box12 Switch	Off, On	01	
			0C	1	00 – 01	Filter Controller Box13 Switch	Off, On	01	
			0D	1	00 – 01	Filter Controller Box14 Switch	Off, On	01	
			0E	1	00 – 01	Filter Controller Box15 Switch	Off, On	01	
			0F	1	00 – 01	Filter Controller Box16 Switch	Off, On	01	
			10	1	00 – 01	Filter Controller Box17 Switch	Off, On	01	
			11	1	00 – 01	Filter Controller Box18 Switch	Off, On	01	

Address				Size	Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
			12	1	00 – 01	Filter Controller Box19 Switch	Off, On	01	
			13	1	00 – 01	Filter Controller Box20 Switch	Off, On	01	
			14	1	00 – 01	Filter Controller Box21 Switch	Off, On	01	
			15	1	00 – 01	Filter Controller Box22 Switch	Off, On	01	
			16	1	00 – 01	Filter Controller Box23 Switch	Off, On	01	
			17	1	00 – 01	Filter Controller Box24 Switch	Off, On	01	
			18	1	00 – 01	Filter Controller Box25 Switch	Off, On	01	
			19	1	00 – 01	Filter Controller Box26 Switch	Off, On	01	
			1A	1	00 – 01	Filter Controller Box27 Switch	Off, On	01	
			1B	1	00 – 01	Filter Controller Box28 Switch	Off, On	01	
			1C	1	00 – 01	Filter Controller Box29 Switch	Off, On	01	
			1D	1	00 – 01	Filter Controller Box30 Switch	Off, On	01	
			1E	1	00 – 01	Filter Controller Box31 Switch	Off, On	01	
			1F	1	00 – 01	Filter Controller Box32 Switch	Off, On	01	
			20	1	00 – 01	Filter Key Controller Box1 Switch	Off, On	01	
			21	1	00 – 01	Filter Key Controller Box2 Switch	Off, On	01	
			22	1	00 – 01	Filter Key Controller Box3 Switch	Off, On	01	
			23	1	00 – 01	Filter Key Controller Box4 Switch	Off, On	01	

TOTAL SIZE = 36 24
 f = Filter number
 0 – 1 Filter 1 – 2
 p = Part number
 0 – F Part 1 – 15 (AN-X)

Address				Size	Data Range MSB/ LSB (HEX)	Parameter Name	Description	Default MSB/ LSB (HEX)	Notes
4p	04	0f	00	2	00 00 – 00 0A	Filter Type	Thru, LPF24, LPF18, LPF12, LPF6, HPF24, HPF18, HPF12, HPF6, BPF12, BPF6	00 01 (Filter 1) 00 05 (Filter 2)	
			02	2	00 00 – 07 7F	Filter Cutoff	0 – 1023	07 7F (Filter 1) 00 05 (Filter 2)	
			04	2	00 01 – 03 7F	Filter Cutoff Velocity Sensitivity	–255 – 0 – +255	02 00	
			06	2	00 40 – 03 40	Filter Cutoff EG Depth	–9600 – +9600 [cent], 50 [cent] step	02 00	
			08	2	00 01 – 03 7F	Filter Cutoff EG Depth Velocity Sensitivity	–255 – 0 – +255	02 00	
			0A	2	00 40 – 03 40	Filter Cutoff LFO Depth	–9600 – +9600 [cent], 50 [cent] step	02 00	
			0C	2	00 00 – 00 05	Filter Cutoff Key Follow	Off, 1/3, 1/2, 2/3, 1, 2 [oct]	00 00	
			0E	2	00 00 – 01 7F	Filter Resonance	0 – 255	00 00	Not available for LPF6 and HPF6.
			10	2	00 01 – 03 7F	Filter Resonance Velocity Sensitivity	–255 – 0 – +255	02 00	Not available for LPF6 and HPF6.
			12	2	00 00 – 00 50	Filter Saturator Drive	0.0 – 60.0 [dB], 0.75 [dB] step	00 00	
			14	2	00 01 – 03 7F	Filter Saturator Drive Velocity Sensitivity	–255 – 0 – +255	02 00	
			16	2	00 20 – 00 60	Filter Out Level	–12.0 – +12.0 [dB], 0.375 [dB] step	00 40	

TOTAL SIZE = 24 18
 f = Filter number
 p = Part number
 0 – F Part 1 – 16 (AN-X)

