

1. TRANSMITTED DATA

1-1 CHANNEL MESSAGES [H]:Hex, [D]:Decimal

Status [H]	Second [H] [D]	Third [H]	Description
8n	kk (kk)	vv	Note Off vv=0~127
9n	kk (kk)	vv	Note On vv=1~127
Bn	00 (00)	mm	Program Bank Select(MSB) [NOTE1]
Bn	06 (06)	dd	Data Entry(MSB) [TABLE1]
Bn	20 (32)	bb	Program Bank Select(LSB) [NOTE1]
Bn	62 (98)	nl	NRPN LSB [TABLE1]
Bn	63 (99)	nm	NRPN MSB [TABLE1]
Cn	pp (pp)	--	Program Change [NOTE1]

n : MIDI Channel (0~15)

1-2 SYSTEM COMMON MESSAGES

Status [H]	Second [H]	Third [H]	Description
F2	pp	pp	Song Position Pointer
F3	ss	--	Song Select ss : Song No. = 0~15

This message is transmitted when in Song mode and the "Clock" is set to "INT".

1-3 SYSTEM REALTIME MESSAGES

Status[H]	Description
F8	Timing Clock *
FA	Start *
FB	Continue *
FC	Stop *
FE	Active Sensing

* :This message is transmitted when the "Clock" is set to "INT".

1-4 UNIVERSAL SYSTEM EXCLUSIVE MESSAGES

DEVICE INQUIRY REPLY

Byte[H]	Description
F0	Exclusive Status
7E	Non Realtime Message
0c	MIDI Channel (Device ID)
06	Inquiry Message
02	Identity reply
42	KORG ID (Manufacturers ID)
51	ER-1 ID (Family ID (LSB))
00	(Family ID (MSB))
00	(Member ID (LSB))
00	(Member ID (MSB))
xx	(Minor Ver. (LSB))
xx	(Minor Ver. (MSB))
xx	(Major Ver. (LSB))
xx	(Major Ver. (MSB))
F7	End of Exclusive

This message is transmitted whenever a INQUIRY MESSAGE REQUEST is received.

1-5 SYSTEM EXCLUSIVE MESSAGES

Function ID	R	D	E

[Hex]				
40	CURRENT PATTERN DATA DUMP			○
58	CURRENT SONG DATA DUMP			○
4C	ALL PATTERN DATA DUMP			○
57	ALL SONG DATA DUMP		○	○
50	ALL DATA(GLOBAL,PATTERN,SONG) DUMP		○	○
26	DATA FORMAT ERROR			○
23	DATA LOAD COMPLETED			○
24	DATA LOAD ERROR			○
21	WRITE COMPLETED			○
22	WRITE ERROR			○

Transmitted when

- R : Request message is received
- D : Data dump from MIDI dump page
(Doesn't respond to "MIDI Filter E(Exclusive Enable)" parameter)
- E : Exclusive message is received

2.RECOGNIZED RECEIVE DATA

2-1 CHANNEL MESSAGES

Status [Hex]	Second [H] [D]	Third [H]	Description	
8n	kk (kk)	vv	Note Off vv=0~127	
9n	kk (kk)	00	Note Off	
9n	kk (kk)	vv	Note On vv=1~127	
Bn	00 (00)	mm	Program Bank Select(MSB)	[NOTE1]
Bn	06 (06)	dd	Data Entry(MSB)	[TABLE1]
Bn	20 (32)	bb	Program Bank Select(LSB)	[NOTE1]
Bn	62 (98)	nl	NRPN LSB	[TABLE1]
Bn	63 (99)	nm	NRPN MSB	[TABLE1]
Bn	7A(122)	00/7F	Local Control Off/On	*
Bn	7B(123)	00	All Note Off	*
Bn	7C(124)	00	Omni Mode Off	*
Bn	7D(125)	00	Omni Mode On	*
Cn	pp (pp)	--	Program Change	[NOTE1]

n : MIDI Channel No.(0~15)

* : Receive as All Note Off.

2-2 SYSTEM REALTIME MESSAGES

Status[H]	Description	
F8	Timing Clock	*
FA	Start	*
FB	Continue	*
FC	Stop	*
FE	Active Sensing	

* :This message is recognized when the "Clock" is set to "EXT".

2-3 UNIVERSAL SYSTEM EXCLUSIVE MESSAGE (NON REALTIME)

DEVICE INQUIRY MESSAGE REQUEST

Byte[H]	Description
F0	Exclusive Status
7E	Non Realtime Message
0c	MIDI Channel
06	Inquiry Message
01	Inquiry Request
F7	End of Exclusive

2-4 SYSTEM EXCLUSIVE MESSAGE

Function ID [Hex]	Function	D	A
10	CURRENT PATTERN DATA DUMP REQUEST		○
1C	ALL PATTERN DATA DUMP REQUEST		○
0A	CURRENT SONG DATA DUMP REQUEST		○
0B	ALL SONG DATA DUMP REQUEST		○
0F	ALL DATA(GLOBAL,PATTERN,SONG) DUMP REQUEST		○
11	PATTERN WRITE REQUEST		○
1A	SONG WRITE REQUEST		○
40	CURRENT PATTERN DATA DUMP	○	○
4C	ALL PATTERN DATA DUMP	○	○
58	CURRENT SONG DATA DUMP	○	○
57	ALL SONG DATA DUMP	○	○
50	ALL DATA(GLOBAL,PATTERN,SONG) DUMP	○	○

Received when in

D : in MIDI Dump page

(Does not respond to "MIDI Filter E(Exclusive Enable)" parameter on MIDI Dump page)

A :any other mode

Received when Sequencer is not running.

MIDI EXCLUSIVE FORMAT (R:Receive, T:Transmit)

(1) CURRENT PATTERN DATA DUMP REQUEST R

Byte	Description
F0,42,3c,51	EXCLUSIVE HEADER
0001 0000 (10)	CURRENT PATTERN DATA DUMP REQUEST 10H
1111 0111 (F7)	EOX

When this message is received, the CURRENT PATTERN DATA DUMP(Function:40h) message will be transmitted.

(2) ALL PATTERN DATA DUMP REQUEST R

Byte	Description
F0,42,3c,51	EXCLUSIVE HEADER
0001 1100 (1C)	ALL PATTERN DATA DUMP REQUEST 1CH
1111 0111 (F7)	EOX

When this message is received, the ALL PATTERN DATA DUMP(Function:4Ch) message will be transmitted.

(3) CURRENT SONG DATA DUMP REQUEST R

Byte	Description
F0,42,3c,51	EXCLUSIVE HEADER
0000 1010 (0A)	CURRENT SONG DATA DUMP REQUEST 0AH
1111 0111 (F7)	EOX

When this message is received, the CURRENT SONG DATA DUMP (Function:58h) message will be transmitted.

(4) ALL SONG DATA DUMP REQUEST R

Byte	Description
F0,42,3c,51	EXCLUSIVE HEADER
0000 1011 (0B)	ALL SONG DATA DUMP REQUEST 0BH
1111 0111 (F7)	EOX

When this message is received, the ALL SONG DATA DUMP(Function:57h) message will be transmitted.

(5) ALL DATA DUMP REQUEST R

Byte	Description
F0,42,3c,51	EXCLUSIVE HEADER
0000 1111 (0F)	ALL DATA DUMP REQUEST 0FH
1111 0111 (F7)	EOX

When this message is received, the ALL DATA DUMP(Function:50h) message will be transmitted.

(6) PATTERN WRITE REQUEST R

Byte	Description
F0,42,3c,51	EXCLUSIVE HEADER
0001 0001 (11)	PATTERN WRITE REQUEST 11H
0000 000b (0b)	Destination Program Number(0:A01~B64,1:C01~D64)
0ppp pppp (pp)	Destination Program Number
1111 0111 (F7)	EOX

When this message is received, a WRITE COMPLETED(Function:21h) message or a WRITE ERROR(Function:22h) message will be transmitted.

(7) SONG WRITE REQUEST R

Byte	Description
F0,42,3c,51	EXCLUSIVE HEADER
0001 1010 (1A)	SONG WRITE REQUEST 1AH
0000 ssss (0s)	Destination Song No(0~15)
1111 0111 (F7)	EOX

When this message is received, a WRITE COMPLETED(Function:21h) message or a WRITE ERROR(Function:22h) message will be transmitted.

(8) CURRENT PATTERN DATA DUMP R/T

Byte	Description
F0,42,3c,51	EXCLUSIVE HEADER
0100 0000 (40)	CURRENT PATTERN DATA DUMP 40H
0ddd dddd (dd)	Data [NOTE2][TABLE2]
:	:
1111 0111 (F7)	EOX

When this message is received, a DATA LOAD COMPLETED(Function:23h) message or a DATA LOAD ERROR(Function:24h) message will be transmitted.

(9) ALL PATTERN DATA DUMP R/T

Byte	Description
F0,42,3c,51	EXCLUSIVE HEADER
0100 1100 (4C)	ALL PATTERN DATA DUMP 4CH
0ddd dddd (dd)	Data [NOTE2][TABLE2]
:	:
1111 0111 (F7)	EOX

When this message is received, a DATA LOAD COMPLETED(Function:23h) message or a DATA LOAD ERROR(Function:24h) message will be transmitted.

(10) CURRENT SONG DATA DUMP

R/T

Byte	Description	
F0,42,3c,51	EXCLUSIVE HEADER	
0101 1000 (58)	CURRENT SONG DATA DUMP	58H
0ddd dddd (dd)	Data	[NOTE2][TABLE8]
:	:	
1111 0111 (F7)	EOX	

When this message is received, a DATA LOAD COMPLETED(Function:23h) message or a DATA LOAD ERROR(Function:24h) message will be transmitted.

(11) ALL SONG DATA DUMP

R/T

Byte	Description	
F0,42,3c,51	EXCLUSIVE HEADER	
0101 0111 (57)	ALL SONG DATA DUMP	57H
0ddd dddd (dd)	Data	[NOTE2][TABLE9]
:	:	
1111 0111 (F7)	EOX	

When this message is received, a DATA LOAD COMPLETED(Function:23h) message or a DATA LOAD ERROR(Function:24h) message will be transmitted.

(12) ALL DATA DUMP

R/T

Byte	Description	
F0,42,3c,51	EXCLUSIVE HEADER	
0101 0000 (50)	ALL DATA DUMP	50H
0ddd dddd (dd)	Data	[NOTE2][TABLE12]
:	:	
1111 0111 (F7)	EOX	

When this message is received, a DATA LOAD COMPLETED(Function:23h) message or a DATA LOAD ERROR(Function:24h) message will be transmitted.

(13) DATA FORMAT ERROR

T

Byte	Description	
F0,42,3c,51	EXCLUSIVE HEADER	
0010 0110 (26)	DATA FORMAT ERROR	26H
1111 0111 (F7)	EOX	

(14) DATA LOAD COMPLETED

T

Byte	Description	
F0,42,3c,51	EXCLUSIVE HEADER	
0010 0011 (23)	DATA LOAD COMPLETED	23H
1111 0111 (F7)	EOX	

(15) DATA LOAD ERROR

T

Byte	Description	
F0,42,3c,51	EXCLUSIVE HEADER	
0010 0100 (24)	DATA LOAD ERROR	24H
1111 0111 (F7)	EOX	

(16) WRITE COMPLETED

T

Byte	Description	
F0,42,3c,51	EXCLUSIVE HEADER	
0010 0001 (21)	WRITE COMPLETED	21H
1111 0111 (F7)	EOX	

(17) WRITE ERROR

T

Byte	Description	
F0,42,3c,51	EXCLUSIVE HEADER	
0010 0010 (22)	WRITE ERROR	22H
1111 0111 (F7)	EOX	

NOTE1 : Pattern number

mm,bb,pp = 00,00,00~3F : A01~64
 00,00,40~7F : B01~64
 00,01,00~3F : C01~64
 00,01,40~7F : D01~64

NOTE2: The dump data conversion

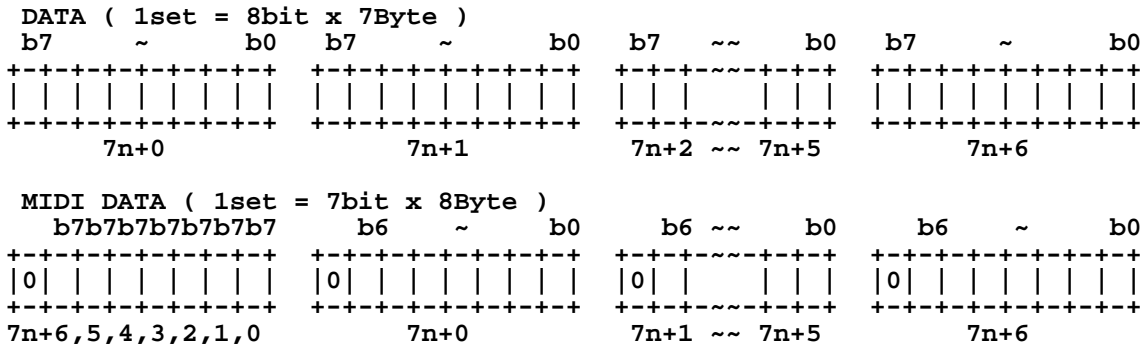


TABLE1 : NON REGISTERED PARAMETER NUMBER (NRPN)
 MOTION SEQUENCE/SONG EVENT DESTINATION PARAMETER NUMBER

nm	nl	Parameter	dd (Data Entry(MSB) Value) (Decimal)	ds
[H]	[H]			[H]
02	00	Synth1 Low Boost	0~127	01
02	01	Synth1 Pan	0~127	02
02	02	Synth1 Pitch	0~127	04
02	03	Synth1 Wave	0~63/64~127 : Sin/Tri	05
02	04	Synth1 Mod Type	0~5 : Saw/Squ/Tri/S&H/Noise/Env	06
02	05	Synth1 Mod Speed	0~127	07
02	06	Synth1 Mod Depth	0~127	08
02	07	Synth1 Level	0~127	00
02	08	Synth1 Decay	0~127	03
02	09	Synth1 Motion Seq Type	0~2 : Off/Smooth/TrigHold	
02	0A	Synth2 Low Boost	0~127	0B
02	0B	Synth2 Pan	0~127	0C
02	0C	Synth2 Pitch	0~127	0E
02	0D	Synth2 Wave	0~63/64~127 : Sin/Tri	0F
02	0E	Synth2 Mod Type	0~5 : Saw/Squ/Tri/S&H/Noise/Env	10
02	0F	Synth2 Mod Speed	0~127	11
02	10	Synth2 Mod Depth	0~127	12
02	11	Synth2 Level	0~127	0A
02	12	Synth2 Decay	0~127	0D
02	13	Synth2 Motion Seq Type	0~2 : Off/Smooth/TrigHold	
02	14	Synth3 Low Boost	0~127	15
02	15	Synth3 Pan	0~127	16
02	16	Synth3 Pitch	0~127	18
02	17	Synth3 Wave	0~63/64~127 : Sin/Tri	19
02	18	Synth3 Mod Type	0~5 : Saw/Squ/Tri/S&H/Noise/Env	1A

02 19	Synth3 Mod Speed	0~127	1B
02 1A	Synth3 Mod Depth	0~127	1C
02 1B	Synth3 Level	0~127	14
02 1C	Synth3 Decay	0~127	17
02 1D	Synth3 Motion Seq Type	0~2 : Off/Smooth/TrigHold	
02 1E	Synth4 Low Boost	0~127	1F
02 1F	Synth4 Pan	0~127	20
02 20	Synth4 Pitch	0~127	22
02 21	Synth4 Wave	0~63/64~127 : Sin/Tri	23
02 22	Synth4 Mod Type	0~5 : Saw/Squ/Tri/S&H/Noise/Env	24
02 23	Synth4 Mod Speed	0~127	25
02 24	Synth4 Mod Depth	0~127	26
02 25	Synth4 Level	0~127	1E
02 26	Synth4 Decay	0~127	21
02 27	Synth4 Motion Seq Type	0~2 : Off/Smooth/TrigHold	
02 28	Close Hi-Hat Low Boost	0~127	29
02 29	Close Hi-Hat Pan	0~127	2A
02 2A	Close Hi-Hat Pitch	0~127	2C
02 2F	Close Hi-Hat Level	0~127	28
02 30	Close Hi-Hat Decay	0~127	2B
02 31	Close Hi-Hat Motion Seq Type	0~2 : Off/Smooth/TrigHold	
02 32	Open Hi-Hat Low Boost	0~127	33
02 33	Open Hi-Hat Pan	0~127	34
02 34	Open Hi-Hat Pitch	0~127	36
02 39	Open Hi-Hat Level	0~127	32
02 3A	Open Hi-Hat Decay	0~127	35
02 3B	Open Hi-Hat Motion Seq Type	0~2 : Off/Smooth/TrigHold	
02 3C	Crash Low Boost	0~127	3D
02 3D	Crash Pan	0~127	3E
02 3E	Crash Pitch	0~127	40
02 43	Crash Level	0~127	3C
02 44	Crash Decay	0~127	3F
02 45	Crash Motion Seq Type	0~2 : Off/Smooth/TrigHold	
02 46	H.Clap Low Boost	0~127	47
02 47	H.Clap Pan	0~127	48
02 48	H.Clap Pitch	0~127	4A
02 4D	H.Clap Level	0~127	46
02 4E	H.Clap Decay	0~127	49
02 4F	H.Clap Motion Seq Type	0~2 : Off/Smooth/TrigHold	
02 50	Audio In 1 Low Boost	0~127	51
02 51	Audio In 1 Pan	0~127	52
02 57	Audio In 1 Level	0~127	50
02 58	Audio In 1 Decay	0~63	53
02 59	Audio In 1 Motion Seq Type	0~2 : Off/Smooth/TrigHold	
02 5A	Audio In 2 Low Boost	0~127	5B
02 5B	Audio In 2 Pan	0~127	5C
02 61	Audio In 2 Level	0~127	5A
02 62	Audio In 2 Decay	0~63	5D
02 63	Audio In 2 Motion Seq Type	0~2 : Off/Smooth/TrigHold	
02 64	Delay Depth	0~127	64
02 65	Delay Time	0~127	65
02 66	Ring (Synth1 & Synth2)	0~63/64~127 : Off/On	66
02 67	Ring (Synth4 & Audio In)	0~63/64~127 : Off/On	67
02 68	Input Gain 1	0~100	68
02 69	Input Gain 2	0~100	69
02 6A	Accent Level	0~127	6A
02 6B	Delay Type	0~2 : Off/MotionSeq/TempoDelay	6B
02 6C	Mute 1	Bit6 : 0/1=Mute/Solo Bit3~0(S4~S1)=1 : Mute	6D
02 6D	Mute 2	Bit6 : 0/1=Mute/Solo Bit5~0(A2,A1,P4~P1)=1 : Mute	6E
	Tempo	(song event only)	6C

* S4~S1 : Synth4 ~ Synth1
A2,A1 : Audio In2,1
P4 : H.Clap
P3 : Crash
P2 : Open Hi-Hat
P1 : Close Hi-Hat

TABLE2 : PATTERN PARAMETERS

0	Tempo (MSB)	20~300	
1	Tempo (LSB)		
2	b5,4	Scale/Beat	0~2 : 16th note, 32nd note, triplet
	b1,0	Pattern Length	0~3 : 1~4
3	b7~2	Swing	0~25 : 50~75%
	b1	Ring (Synth4 & Audio In)	0/1 : Off/On
	b0	Ring (Synth1 & Synth2)	0/1 : Off/On
4	Delay Depth	0~127	
5	Delay Time	0~127	
6	Delay Mseq Type	0~2 : Off/Smooth/TrigHold	
7	Accent Level	0~127	
Synth Parameters			
8~15	Synth 1 Parameters	(8bytes)	[TABLE3]
16~23	Synth 2 Parameters	(8bytes)	[TABLE3]
24~31	Synth 3 Parameters	(8bytes)	[TABLE3]
32~39	Synth 4 Parameters	(8bytes)	[TABLE3]
PCM Parameters			
40~44	Close Hi-Hat Paramters	(5bytes)	[TABLE4]
45~49	Open Hi-Hat Paramters	(5bytes)	[TABLE4]
50~54	Crash Parameters	(5bytes)	[TABLE4]
55~59	H.Clap Parameters	(5bytes)	[TABLE4]
Audio In Parameters			
60~63	Audio In 1 Parameters	(4bytes)	[TABLE5]
64~67	Audio In 2 Parameters	(4bytes)	[TABLE5]
Step Sequence Data (10 Parts)			
68~75	Synth 1	(64bits)	[TABLE6]
76~83	Synth 2	(64bits)	[TABLE6]
84~91	Synth 3	(64bits)	[TABLE6]
92~99	Synthr4	(64bits)	[TABLE6]
100~107	Close Hi-Hat	(64bits)	[TABLE6]
108~115	Open Hi-Hat	(64bits)	[TABLE6]
116~123	Crash	(64bits)	[TABLE6]
124~131	H.Clap	(64bits)	[TABLE6]
132~139	Audio In 1	(64bits)	[TABLE6]
140~147	Audio In 2	(64bits)	[TABLE6]
Accent Step Data			
148~155	Accent	(64bits)	[TABLE6]
Motion Sequence Data (10 Parts)			

156~221	Synth 1	(66bytes)	[TABLE7]
222~287	Synth 2	(66bytes)	[TABLE7]
288~353	Synth 3	(66bytes)	[TABLE7]
354~419	Synth 4	(66bytes)	[TABLE7]
420~485	Close Hi-Hat	(66bytes)	[TABLE7]
486~551	Open Hi-Hat	(66bytes)	[TABLE7]
552~617	Crash	(66bytes)	[TABLE7]
618~683	H.Clap	(66bytes)	[TABLE7]
684~749	Audio In 1	(66bytes)	[TABLE7]
750~815	Audio In 2	(66bytes)	[TABLE7]
Delay Motion Sequence Data			
816	Delay Depth (Step1)	0~127 (MSB="1" : Off)	
:	:		
879	Delay Depth (Step64)		
880	Delay Time (Step1)	0~127 (MSB="1" : Off)	
:	:		
943	Delay Time (Step64)		

TABLE3 : PERCUSSION SYNTHESIZER PART PARAMETERS

0	Level	0~127
1	Low Boost	0~127
2	Panpot	0~127(63=center)
3	Decay	0~127
4	Pitch	0~127
5	b7 Osc Wave	0/1 : Sin/Tri
	b2~0 Osc Mod Type	0~5 : Saw/Squ/Tri/S&H/Noise/Env
6	Osc Mod Speed	0~127
7	Osc Mod Type	0~127

TABLE4 : PCM PART PARAMETERS

0	Level	0~127
1	Low Boost	0~127
2	Panpot	0~127 (63=center)
3	Decay	0~127
4	Pitch	0~127

TABLE5 : AUDIO IN PARAMETERS

0	Level	0~127
1	Low Boost	0~127
2	Panpot	0~127 (63=center)

3	Decay	0~63
---	-------	------

TABLE6 : STEP SEQUENCE DATA/ACCENT STEP DATA

offset	type	value
0 Bit0~7	Step1 ~8	:0/1 =Off(Soft)/On(Hard)
1 Bit0~7	Step9 ~16	:0/1 =Off(Soft)/On(Hard)
2 Bit0~7	Step17 ~24	:0/1 =Off(Soft)/On(Hard)
3 Bit0~7	Step25 ~32	:0/1 =Off(Soft)/On(Hard)
4 Bit0~7	Step33 ~40	:0/1 =Off(Soft)/On(Hard)
5 Bit0~7	Step41 ~48	:0/1 =Off(Soft)/On(Hard)
6 Bit0~7	Step49 ~56	:0/1 =Off(Soft)/On(Hard)
7 Bit0~7	Step57 ~64	:0/1 =Off(Soft)/On(Hard)

TABLE7 : MOTION SEQUENCE DATA

0	value (step1)	0~127 (MSB="1" : Off)
:	:	
63	value (step64)	
64	Type	0~2 : Off/Smooth/TrigHold
65	Destination (ds)	[TABLE1]

TABLE8 : CURRENT SONG PARAMETER

0~517	Song Parameters	(518bytes)	[TABLE10]
Song Event Data			
518~521	event data (1st)		[TABLE11]
522~525	event data (2nd)		
:	:		
143314 ~143317 (max)	event data (35700th(max))		

TABLE9 : ALL SONG DATA

0~ 517	Song 1 parameter	(518bytes)	[TABLE10]
518~1035	Song 2 parameter	(518bytes)	[TABLE10]
1036~1553	Song 3 parameter	(518bytes)	[TABLE10]
1554~2071	Song 4 parameter	(518bytes)	[TABLE10]
2072~2589	Song 5 parameter	(518bytes)	[TABLE10]
2590~3107	Song 6 parameter	(518bytes)	[TABLE10]
3108~3625	Song 7 parameter	(518bytes)	[TABLE10]
3626~4143	Song 8 parameter	(518bytes)	[TABLE10]
4144~4661	Song 9 parameter	(518bytes)	[TABLE10]
4662~5179	Song 10 parameter	(518bytes)	[TABLE10]
5180~5697	Song 11 parameter	(518bytes)	[TABLE10]
5698~6215	Song 12 parameter	(518bytes)	[TABLE10]
6216~6733	Song 13 parameter	(518bytes)	[TABLE10]
6734~7251	Song 14 parameter	(518bytes)	[TABLE10]
7252~7769	Song 15 parameter	(518bytes)	[TABLE10]
7770~8287	Song 16 parameter	(518bytes)	[TABLE10]

Song Event Data (Event Size is total number of event of All Songs.)		
8288~8291	event data (1st)	[TABLE11]
8292~8295	event data (2nd)	
:		
151084	event data (35700th(max))	
~151087 (max)		

TABLE10 : SONG PARAMETERS

0	Tempo (MSB)	20~300
1	Tempo (LSB)	
2	step end data	0~255=1stPosition~256thPosition
3	(dummy)	
4	number of event (MSB)	0~35700
5	number of event (LSB)	
Position Data		
6	Pattern Number (1st)	0~255 = A01 ~ D64
:	:	
261	Pattern Number (256th)	
262	dummy	
:	:	
516	dummy	

TABLE11 : SONG EVENT DATA

0	Position Number	0~255
b7	Enable Data	0/1 : Enable/Disable
1	b5,4 Measure Number	0~3 : 1~4
b3~0	Step Number	0~15 : 1~16
b6	if "Control/Note" is Control	
	if "Destination" is Tempo	
	Tempo value (b8)	*2
	if "Destination" is not Tempo	
	not use	
	if "Control/Note" is Note	
	not use	
2	b7 Control/Note	0/1 : Control / Note
	if "Control/Note" is Control	
b6~0	Destination (ds)	[TABLE1]
	if "Control/Note" is Note	
b6~4	not used	
b3~0	Part Number	0~9 *1
3	if "Control/Note" is Control	
	if "Destination" is Tempo	

Tempo Value (b7~0)	20~300(with Tempo value b8 *2)
if "Destination" is not Tempo	
Value	0~127
if "Control/Note" is Note	
not used	

*1 0~3 : Synth1~4
 4 : Close Hi-Hat
 5 : Open Hi-Hat
 6 : Crash
 7 : H.Clap
 8,9 : Audio In2,1

TABLE12 : ALL DATA

0~127	Global Parameters	[TABLE13]
128 ~241791	All Pattern Parameters	[TABLE2]
241792 ~392879 (max)	All Song Parameters	[TABLE9]

TABLE13 : GLOBAL PARAMETERS

0	dummy	
1	Input Gain 1	0~100
2	Metronome	0~4 : Off/r-0/r-1/r-2/On
3	dummy	
4	Synth 1 Note Number	0~127 : C-1~G9
5	Synth 2 Note Number	0~127 : C-1~G9
6	Synth 3 Note Number	0~127 : C-1~G9
7	Synth 4 Note Number	0~127 : C-1~G9
8	Close Hi-Hat Note Number	0~127 : C-1~G9
9	Open Hi-Hat Note Number	0~127 : C-1~G9
10	Crash Note Number	0~127 : C-1~G9
11	H.Clap Note Number	0~127 : C-1~G9
12	Audio In 1 Note Number	0~127 : C-1~G9
13	Audio In 2 Note Number	0~127 : C-1~G9
14	Input Gain 2	0~100
15	Clock	0/1 : Int/Ext
16~63	dummy	
64~127	Pattern Set Parameters	0~255 : A01~D64