Pattern

x6 Channels

FIELD	ITEMCOUNT	BITSIZE	COUNT
ORDER	256	7	1792
TRANSPOSE	256	5	3072
	BITS	BYTES	
SIZE	3072	384	per channel
SONG	18432	2304	per song

TRANSPOSE

USABLE VALUES		
-12	12	4
0	13	4
12	25	5

VAR_DATA

128 PatternCell

FIELD	ITEMCOUNT	BITSIZE	COUNT
CELL	128	480	61440
	BITS	BYTES	
SIZE	61440	**7680**	TOTAL

PatternCell

x128
x256

FIELD	ITEMCOUNT	BITSIZE	COUNT
KEY	16	7	112
CMD	16	5	192
VOL	16	4	256
INS	16	6	352
VAL	16	8	480
	BITS	BYTES	
SIZE	480	60	per cell

GrooveTable

x128
x256

FIELD	ITEMCOUNT	BITSIZE	COUNT
STEP	16	8	128
ENABLE*	1	4	132
LENGTH	1	4	136
POSITION	1	8	144
	BITS	BYTES	
SIZE	144	18	per table

*GrooveTable ENABLE Can be 1 bit wide but made 4 bits wide to round number

TableCell

x64

FIELD	ITEMCOUNT	BITSIZE	COUNT
TRANSPOSE	16	5	80
COMMAND	16	5	160
VOLUME	32	4	288
VALUE	32	8	544
POSITION	2	4	552
JUMP	2	4	560
LOOP	1	4	564
PLAYING	1	4	568
	BITS	BYTES	
SIZE	568	71	per table

SRAM

32K 32768 Bytes

FIELD	ITEMCOUNT	BITSIZE	COUNT
SONG	6	18760	112560
NSTRUMENT	64	888	169392
PATTERN	128	480	230832
CONFIG	128	8	231856
			231856
			231856
		BITS	BYTES
SIZE		30288	3786 LEFT

Instrument

x128
x256

FIELD	ITEMCOUNT	BITSIZE	COUNT
NAME	6	8	48
TYPE	1	2	50
VISPOSITION*	2	7	64
SETTINGS	32	8	320
TABLE	1	568	888
	BITS	BYTES	
SIZE	888	111	per inst

INSTRUMENTS

x64

888	x	64	=	56832
		BITS	BYTES	
SIZE		56832	7104	TOTAL

* Instrument::VISPOSITION could be 4 bits wide, but made 7 to avoid using timers and take this value»3 instead

SONG

PatternCell x128

FIELD	ITEMCOUNT	BITSIZE	COUNT
PATTERNS	6	3072	18432
GROOVE	1	144	18576
TRANSPOSE	1	8	18584
BPM	1	8	18592
TITLE	14	6	18676
ARTIST	14	6	18760
NOTEMPTY	0	1	18760
TAPTICKS	0	8	18760
			18760
	BITS	BYTES	
SIZE	18760	2345	per song

SONGS

x1
x6

SONG COUNT	VAR_DATA SIZE 128		256	
1	18760	2345	37520	4690
2	37520	4690	75040	9380
3	75040	9380	150080	18760
4	150080	18760	300160	37520
5	300160	37520	600320	75040
6	600320	75040	1200640	150080
SIZE	BITS	BYTES	BITS	BYTES