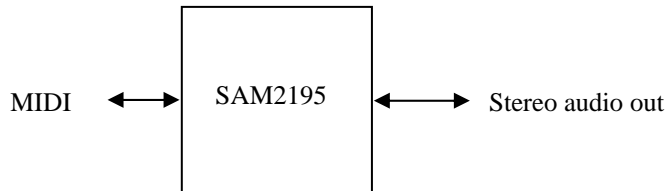


Overview

2195-EK demonstrates a typical low cost and low power application of SAM2195 (SINGLE CHIP SYNTHESIZER WITH EFFECT, PARALLEL INTERFACE, STEREO DAC).



2195-EK provides:

- High quality wavetable synthesis with 64 voices polyphony (38 voices with effects)
- General MIDI implementation
- General MIDI compatible reverb and chorus
- Spatial effect
- 4-band stereo equalizer

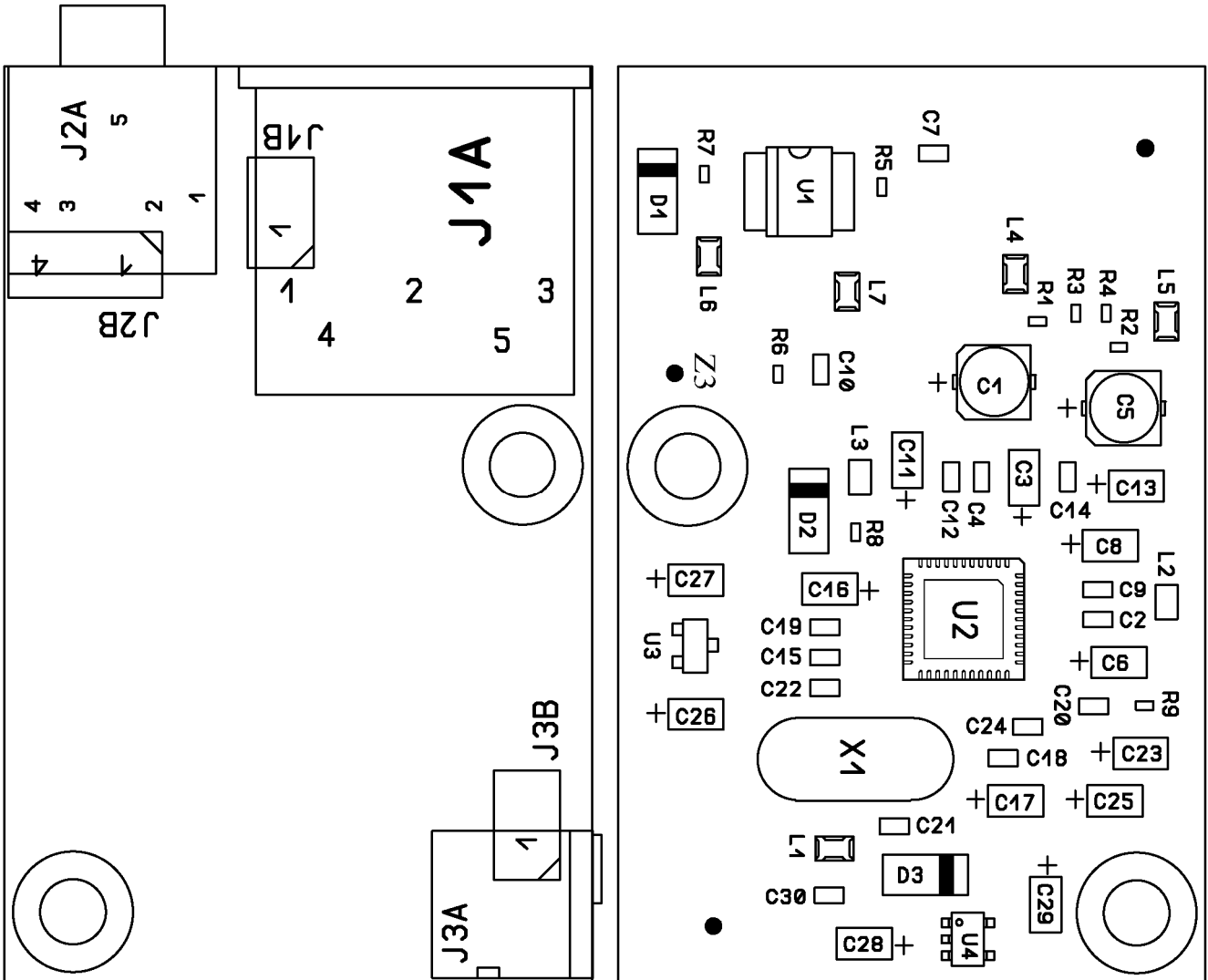
For a full list of available features and detailed MIDI implementation please refer to the SAM2195 datasheet.

Connectors Configuration

Reference	Type	Name	Description
J1A	Din	MIDI IN	MIDI interface input
J1B	1*2 (Not Mounted)	MIDI IN	MIDI input
J2A	Mini Jack (Stereo)	LINE OUT	Stereo Audio Output
J2B	1*3 (Not Mounted)	LINE OUT	Stereo Audio Output
J3A	DC Plug	DC	Power Supply, +9V, minus on ring
J3B	1*2 (Not Mounted)	DC	Power Supply, +9V, minus on pin 1

Layout

Size: 0.18 dm² (53.00 mm x 34.00 mm)



Bill of Material

SAM2195 - LOW COST WAVETABLE MODULE Revised: Thursday, April 05, 2007

2195-EK.DSN Revision: 0.1

Bill Of Materials April 5,2007 Page1

Item	Quantity	Reference	Part
1	2	C1,C5	2.2µF-A-16V
2	12	C2,C4,C7,C9,C10,C12,C14, C15,C18,C19,C24,C30	100nF
3	6	C3,C11,C13,C16,C17,C29	1µF-T
4	5	C6,C8,C26,C27,C28	10µF-T
5	1	C20	470pF
6	2	C21,C22	22pF
7	1	C23	2.2µF-T
8	1	C25	4.7µF-T
9	3	D1,D2,D3	LL4148
10	1	J1A	MIDI_DIN
11	2	J1B,J3B	HEAD_2
12	1	J2A	JACK 3.5 STEREO
13	1	J2B	HEAD_3
14	1	J3A	DC PLUG
15	1	L1	NFM21PC104R1E3
16	2	L2,L3	742792093
17	4	L4,L5,L6,L7	NFM21CC102R1H3
18	4	R1,R2,R6,R7	220
19	2	R3,R4	3.3k
20	1	R5	4.7k
21	1	R8	10k
22	1	R9	0
23	1	U1	HCPL-0501
24	1	U2	SAM2195
25	1	U3	XC6202P502MR
26	1	U4	XC6201P332MR
27	1	X1	9.6MHz

Dream Contact

info@dream.fr

Website

<http://www.dream.fr>

*This publication neither states nor implies any warranty of any kind, including, but not limited to, implied warrants of merchantability or fitness for a particular application. Dream assumes no responsibility for the use of any circuitry. No circuit patent licenses are implied.
The information in this publication is believed to be accurate in all respects at the time of publication but is subject to change without notice. Dream assumes no responsibility for errors and omissions, and disclaims responsibility for any consequences resulting from the information included herein.*