Functional description

Main features

- GM / GS Synthesis
- Reverb and Chorus
- 4 channel outputs
- Surround 2 or 4 channels
- Parametric 4 bands equalizer
- Microphone echo
- Pitch shifter for MPEG VC chorus

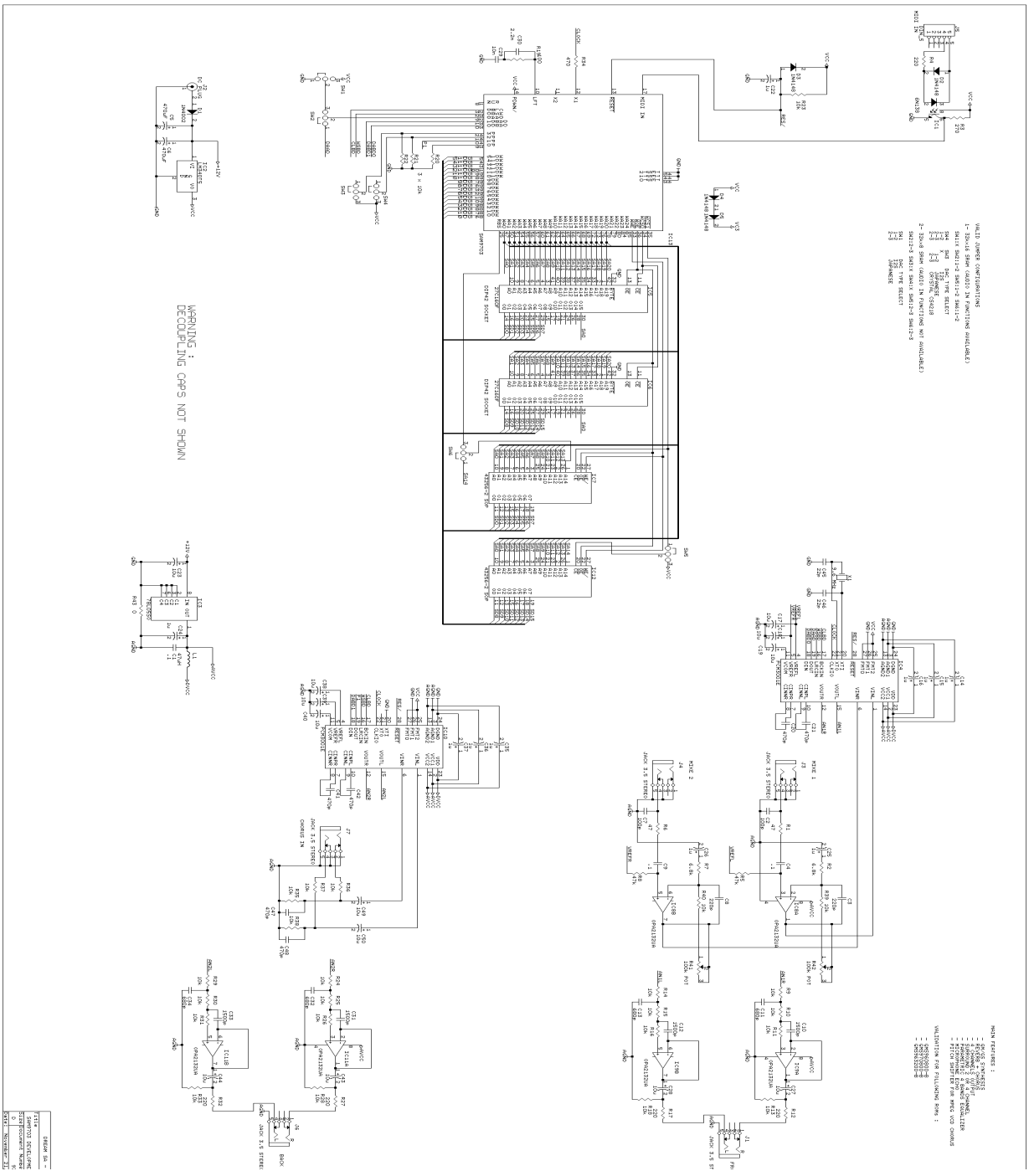
Validation for following ROMs

- GMS960800 B Roland 8Mb
- GMS970800 B CleanWave8
- GMS963200 B Roland 32Mb
- GMS973202 B CleanWave32Mb

SAM9703 DEVELOPMENT BOARD FOR VCD KARAOKE Revised: November 21, 1997
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Item	Quantity	Reference	Part
1	5	J1,J3,J4,J6,J7	JACK 3.5 STEREO
2	3	C1,C4,C9	.1
3	2	C2,C7	100p
4	2	R1,R6	47
5	2	R2,R7	6.8k
6	2	C3,C8	220p
7	1	D1	1N4002
8	4	D2,D3,D4,D5	1N4148
9	1	R3	270
10	5	R4,R12,R17,R27,R32	220
11	1	IC1	6N138
12	1	J2	DC PLUG
13	2	C5,C6	470uF
14	1	IC2	LM340T5
15	2	R5,R8	47k
16	1	IC3	78L05SO
17	2	IC4,IC10	PCM3001E (Dream)
18	26	R9,R10,R11,R13,R14,R15,R16,R18,R20,R21, R22,R23, R24,R25,R26,R28,R29,R30, R31, R33,R35,R36,R37,R38,R39,R40	10k
19	4	C10,C12,C31,C33	1500p
20	4	C11,C13,C32,C34	680p
21	10	C14,C15,C16,C22,C24,C25, C26,C35,C36,C37	1u
22	13	C17,C18,C19,C23,C27,C28, C38,C39,C40, C43,C44,C49,C50	10u
23	6	C20,C21,C41,C42,C47,C48	470p
24	1	L1	47uH
25	1	J5	DIN_5
26	1	R19	100
27	1	C29	10n
28	1	C30	2.2n
29	2	IC5,IC6	27C160F (DIP42 socket only)

30	2	IC7,IC12	43256-2 SOP
31	3	IC8,IC9,IC11	OPA2132UA (Dream)
32	1	IC13	SAM9703 (TQFP100 - Dream)
33	1	R34	470
34	1	X1	9.6 MHz Crystal
35	2	C45,C46	22p
36	6	SW1,SW2,SW3,SW4,SW5,SW6	STRAP2P
37	2	R41,R42	100k POT
			Sfernice P10 (Radiospares 176-5786)
38	1	R43	0



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