

# SAM9703 EVALUATION BOARD

9703GS is a 4Mbyte sample set SAM9703 based « waveblaster » compatible board.

It provides professional quality MIDI synthesis, with reverb, echo, 4 bands parametric equalizer and spatializer effect, with minimum chip count.

It can be plugged directly into any PC sound board featuring the « waveblaster » connector.

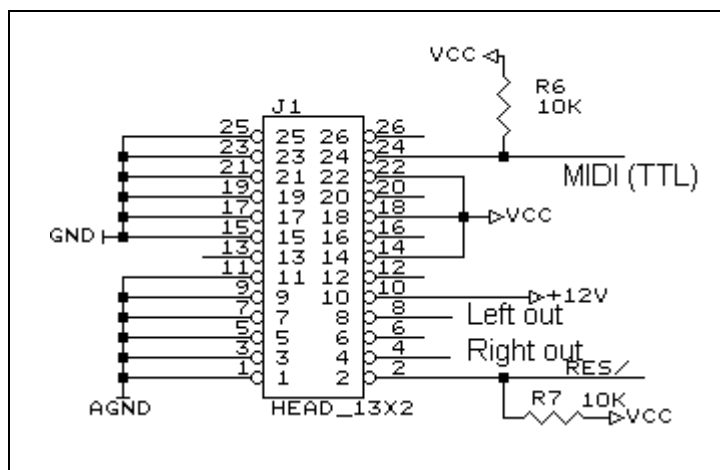
For a full list of 9703GS features, refer to the attached document, which describes the firmware coded into the ROM associated to the synthesis chip.

## CONNECTION :

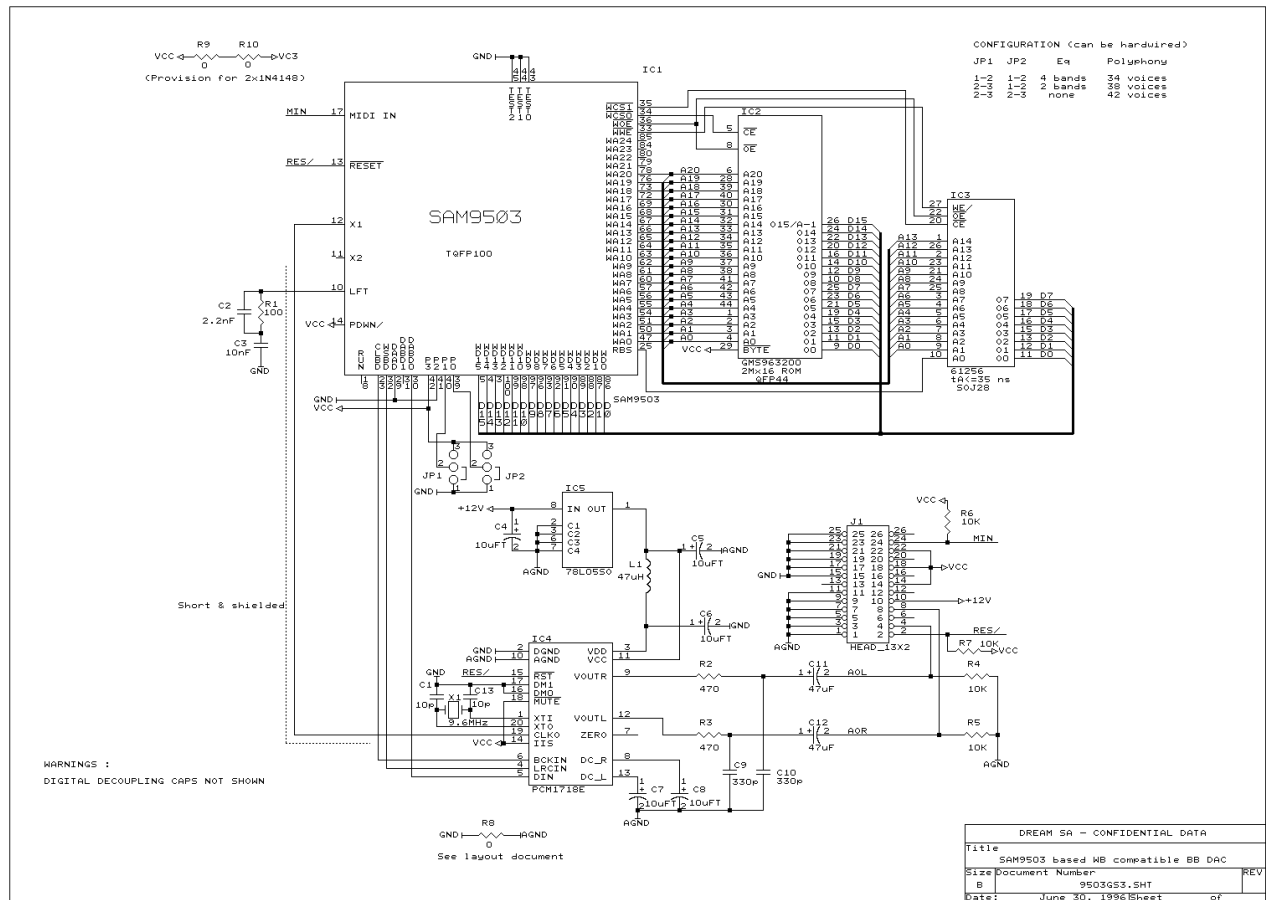
Note that board requires

**+5V**

+9V to +12V (on-board regulator)



# SCHEMATICS & PARTLIST



SAM9703 based WB compatible BB DAC

9703GS3.SHT

Bill Of Materials

Decoupling caps not included

Item Quantity Reference Part

1	1	C2	2.2nF
2	1	R1	100
3	1	C3	10nF
4	1	IC2	32Mbit ROM
5	1	J1	HEAD_13X2 (Waveblaster connector)
6	1	IC3	61256-20 (32k x 8 RAM, tA<45 ns)
7	1	IC1	SAM9703
8	5	C4,C5,C6,C7,C8	10uFT
9	1	IC5	78L0550 (5V regulator)
10	4	R6,R4,R5,R7	10K
11	3	R9,R8,R10	0
12	2	JP1,JP2	Jumpers
13	1	X1	9.6MHz Crystal
14	1	L1	47uH coil
15	2	R2,R3	470
16	1	IC4	PCM1718E (Burr-Brown, 18bits DAC)
17	2	C1,C13	10p
18	2	C9,C10	330p
19	2	C11,C12	47uF
20	2	D1,D2	1N4148
21	1	R11	330