
9713GS BOARD

SAM9713 REFERENCE DESIGN

9713GS demonstrates a typical application of SAM9713. This is a Waveblaster™ compatible board which uses SAM9713 with 512kx16 ROM (8Mbit), 32kx8 SRAM, and a Burr-Brown PCM1718E stereo DAC.

The ROM can be of the type GMS960800B (with express permission of Roland corporation, special licensing conditions apply), or GMS970800B without license.

9713GS provides:

- High quality wavetable synthesis with 38 voices polyphony
- Compatible reverb and chorus
- Surround
- 4 bands equalizer

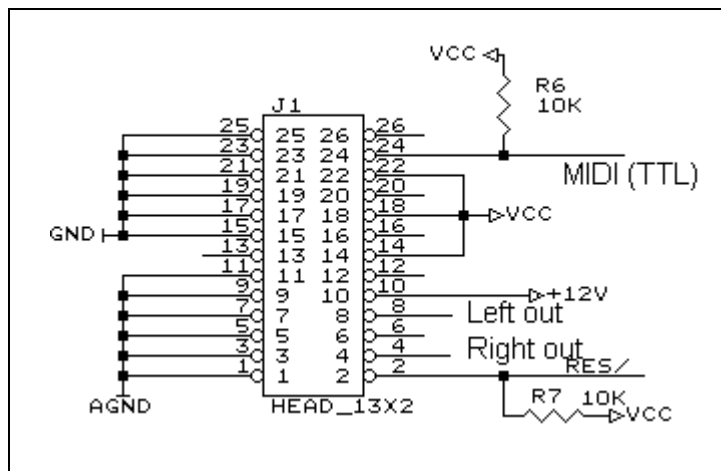
For a full list of available features and detailed MIDI implementation please refer to the corresponding ROM data sheet (GMS960800B or GMS970800B).

CONNECTION:

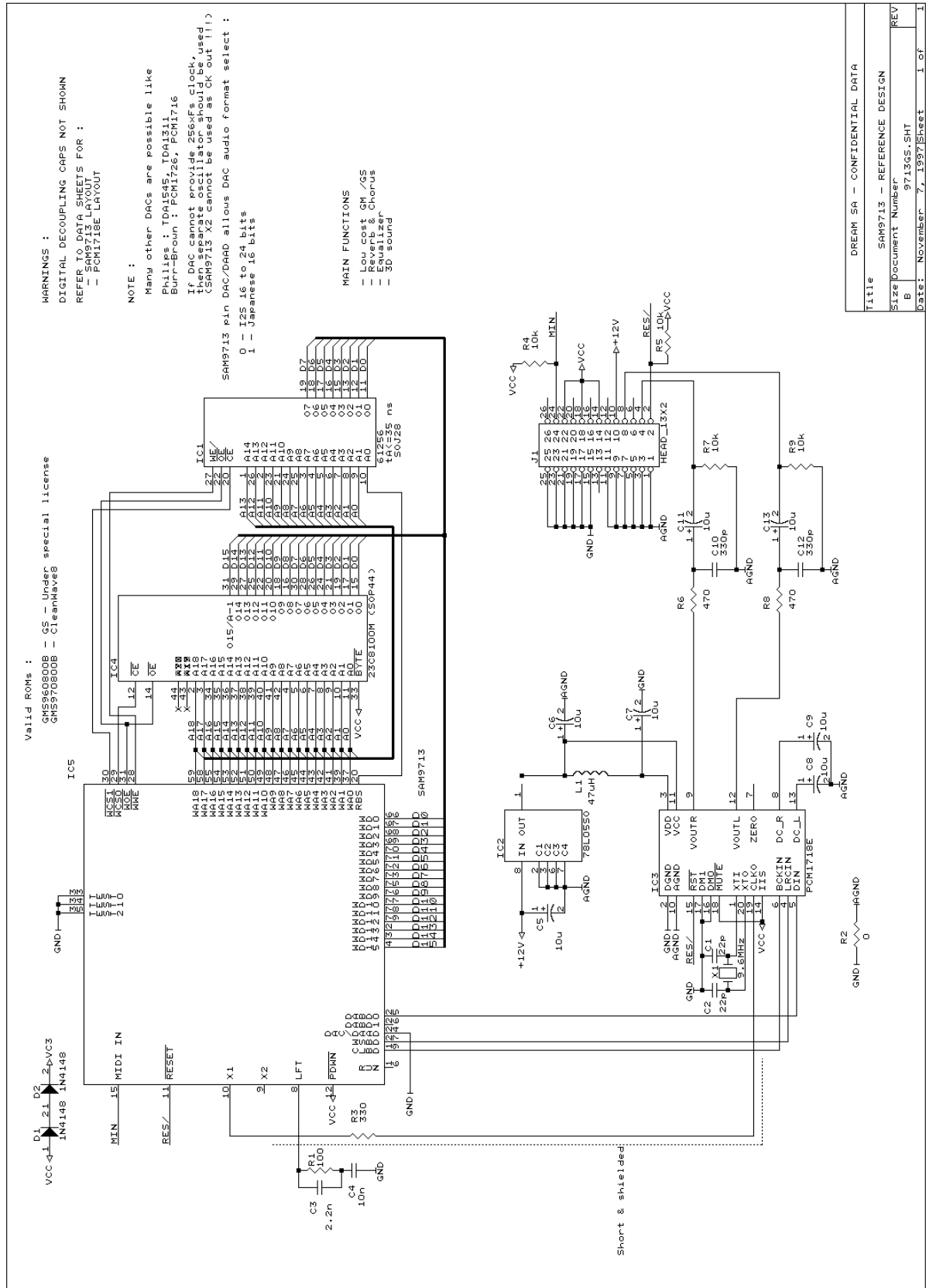
Note that board requires

+5V

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



Schematics



Parts list

SAM9713 - REFERENCE DESIGN

Revised: November 7, 1997

9713GS.SHT

Revision:

Bill Of Materials

November 7, 1997

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| Item | Quantity | Reference | Part |
|------|----------|------------------------|------------------|
| 1 | 1 | R1 | 100 |
| 2 | 1 | J1 | HEAD_13X2 |
| 3 | 1 | IC1 | 61256 |
| 4 | 1 | IC2 | 78L05SO |
| 5 | 1 | X1 | 9.6MHz |
| 6 | 1 | L1 | 47uH |
| 7 | 1 | R2 | 0 |
| 8 | 1 | IC3 | PCM1718E |
| 9 | 1 | IC4 | 23C8100M (SOP44) |
| 10 | 1 | IC5 | SAM9713 |
| 11 | 1 | R3 | 330 |
| 12 | 2 | C1,C2 | 22p |
| 13 | 2 | D1,D2 | 1N4148 |
| 14 | 1 | C3 | 2.2n |
| 15 | 1 | C4 | 10n |
| 16 | 7 | C5,C6,C7,C8,C9,C11,C13 | 10u |
| 17 | 4 | R4,R5,R7,R9 | 10k |
| 18 | 2 | R6,R8 | 470 |
| 19 | 2 | C10,C12 | 330p |