Dragon 32 MKII
SAM & Device Selects

Schematic:

- C72 100n (+5V to 0V)
- C37 4u7
- IC15 74LS783 (pin 40 = +5V, pin 20 = 0V)

IC15 74LS783 left-side pins:
- 16 A0 → A0
- 17 A1 → A1
- 18 A2 → A2
- 19 A3 → A3
- 21 A4 → A4
- 22 A5 → A5
- 23 A6 → A6
- 24 A7 → A7
- 4 A8 → A8
- 3 A9 → A9
- 2 A10 → A10
- 1 A11 → A11
- 39 A12 → A12
- 38 A13 → A13
- 37 A14 → A14
- 36 A15 → A15
- 15 R/W → R/W
- 14 E → E
- 13 Q → Q

IC15 right-side pins (22R x 11):
- 28 Z — R25 → Z
- 29 Z — R24 → Z
- 30 Z — R23 → Z
- 31 Z — R22 → Z
- 32 Z — R21 → Z
- 33 Z — R19 → Z
- 34 Z — R20 → Z
- 12 Z — R26 → Z
- $\overline{RAS0}$ — 35 R12 → $\overline{RAS0}$
- $\overline{RAS1}$ — 11 R27 → $\overline{RAS1}$
- $\overline{CAS}$ — 10 R28 → $\overline{CAS}$
- WE → WE
- 9 $\overline{HS}$ → $\overline{NHS}$
- 7 VCLK → VCLK
- 8 DA0 → DA0
- 27 S0
- 26 S1
- 25 S2

Bottom of IC15:
- pin 5, pin 6
- R37 1K5
- XL2 14.218MHz
- C40 22p, C41 33p
- 0V

IC33 74LS138:
- 16 Vcc, +5V
- R39 4K7
- 6 G1 → $\overline{EXTMEM}$
- Y0 15 → MEM
- Y1 14 → R0
- 1 A — Y2 13 → R1
- 2 B — Y3 12 → R2
- 3 C — Y4 11 → P0
- Y5 10 → P1
- Y6 9 → P2
- Y7 7 → ?
- 4 $\overline{G2A}$
- 5 $\overline{G2B}$
- 8 Gnd, 0V

IC31d 74LS02:
- pins 12, 11, 13 → E

Spare Gates:
- IC31a (pins 1, 2, 3)
- IC31b (pins 4, 5, 6)