Mapper MSX Konami type.

Second updated version!

Hardware as found in Zemina game cartridges, implementing a standard Konami mapper (8K pages at addresses 4000 6000 8000 A000)
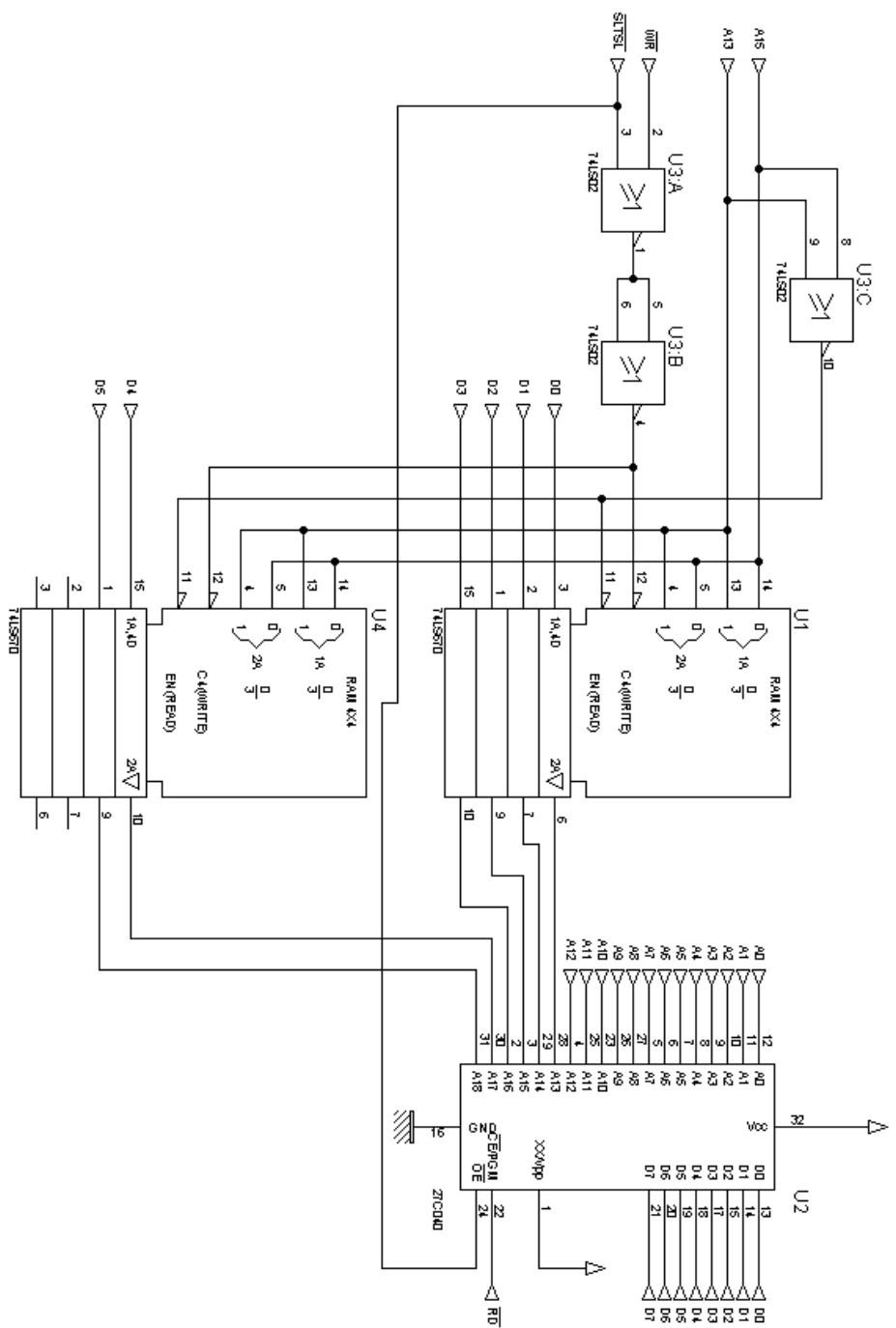
Three types are shown, different in size of the EPROM (128K 27C010, 256K 27C020, 512K 27C040), and therefore the number of pages available

The register IC 74LS670 delivers 4 extra address lines to the ROM, in theory the 512K variant, with two 74LS670's, could support up to 2048K

Circuit diagrams by Jipe (Jean-Pierre Dubois, 2008)
PDF by HansO, 2008

Mapper Zemina 128k - Konami 8k 4000 6000 8000 A000

SLTSL
WR
A13
A15

74LS02 U3:A
74LS02 U3:B
74LS02 U3:C

D4 D3 D2 D1 D0

74LS670 U4
74LS670

RAM 4X4
EN(READ)
C4(WRITE)
U1

RAM 4X4
EN(READ)
C4(WRITE)

A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12
A17 A16 A15 A14 A13 A12 A11 A10 A9

GND
Vcc
XX/PGM
XX/Vpp
CE
OE
27C020
RD
D0 D1 D2 D3 D4 D5 D6 D7
U2

MSX Konami Mapper

Mapper Zemina 512K - Konami 8k 4000 6000 8000 A000

MSX Konami Mapper