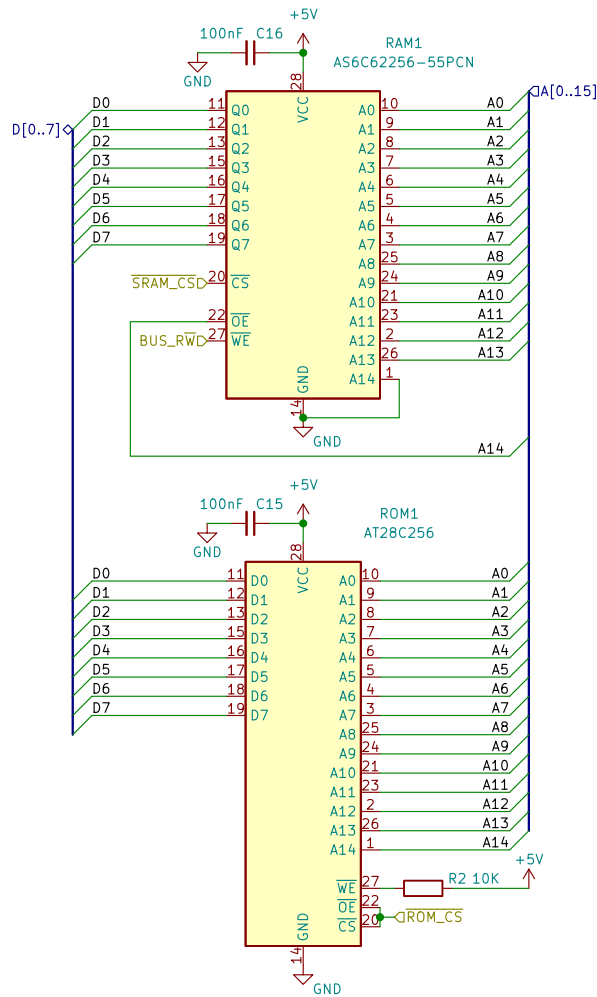


System Memory

RAM: 0x0000 - 0x3FFF

ROM: 0x8000 - 0xFFFF



zrthxn

Sheet: /Memory Unit/

File: memory.kicad_sch

Title: 8puter

Size: A4

Date:

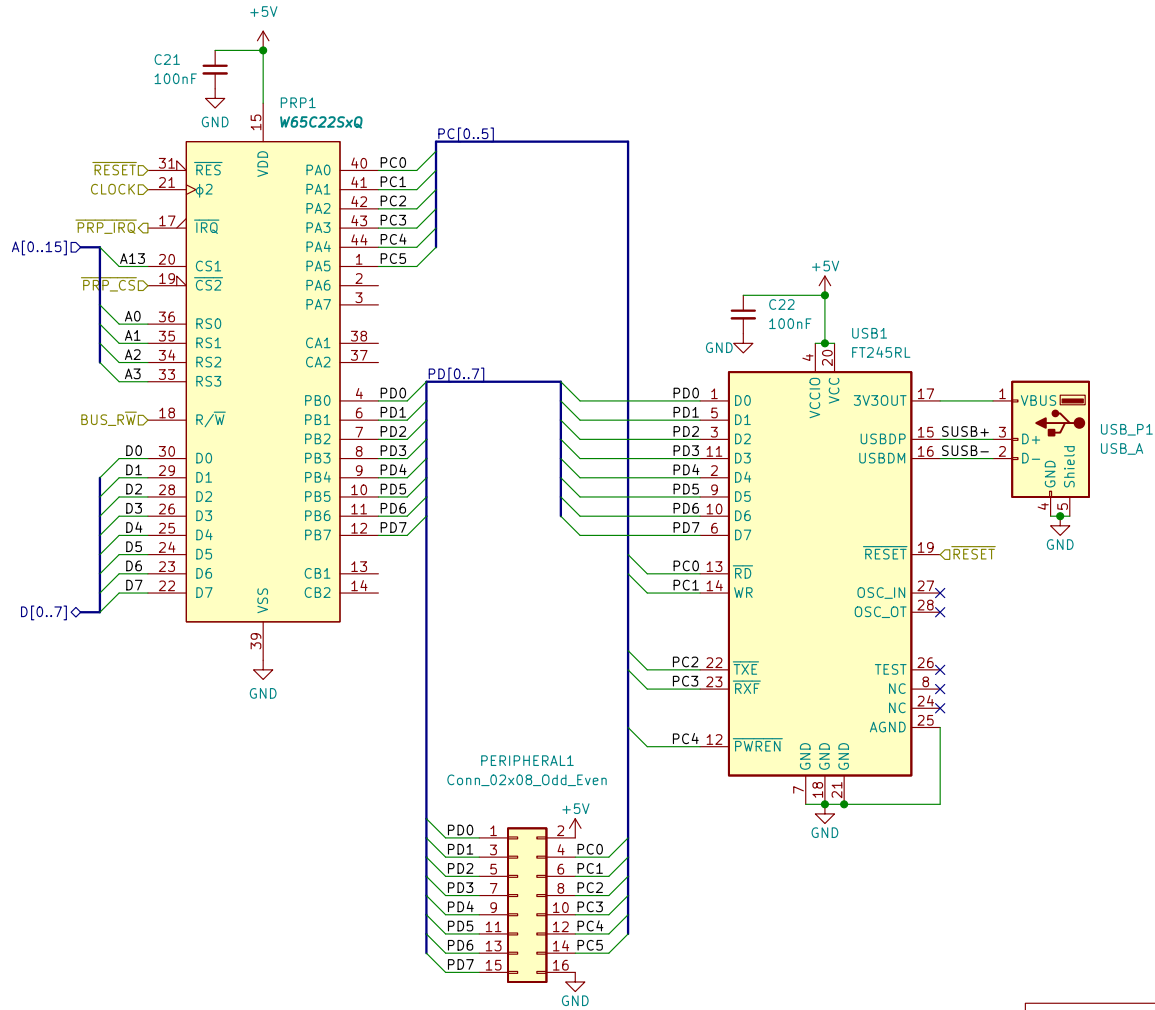
KiCad E.D.A. kicad 6.0.4-1.fc35

Rev: 1.0

Id: 2/7

Peripheral Interface

0x6000 - 0x600F



zrthxn

Sheet: /Peripheral Handler/
File: peripheral.kicad_sch

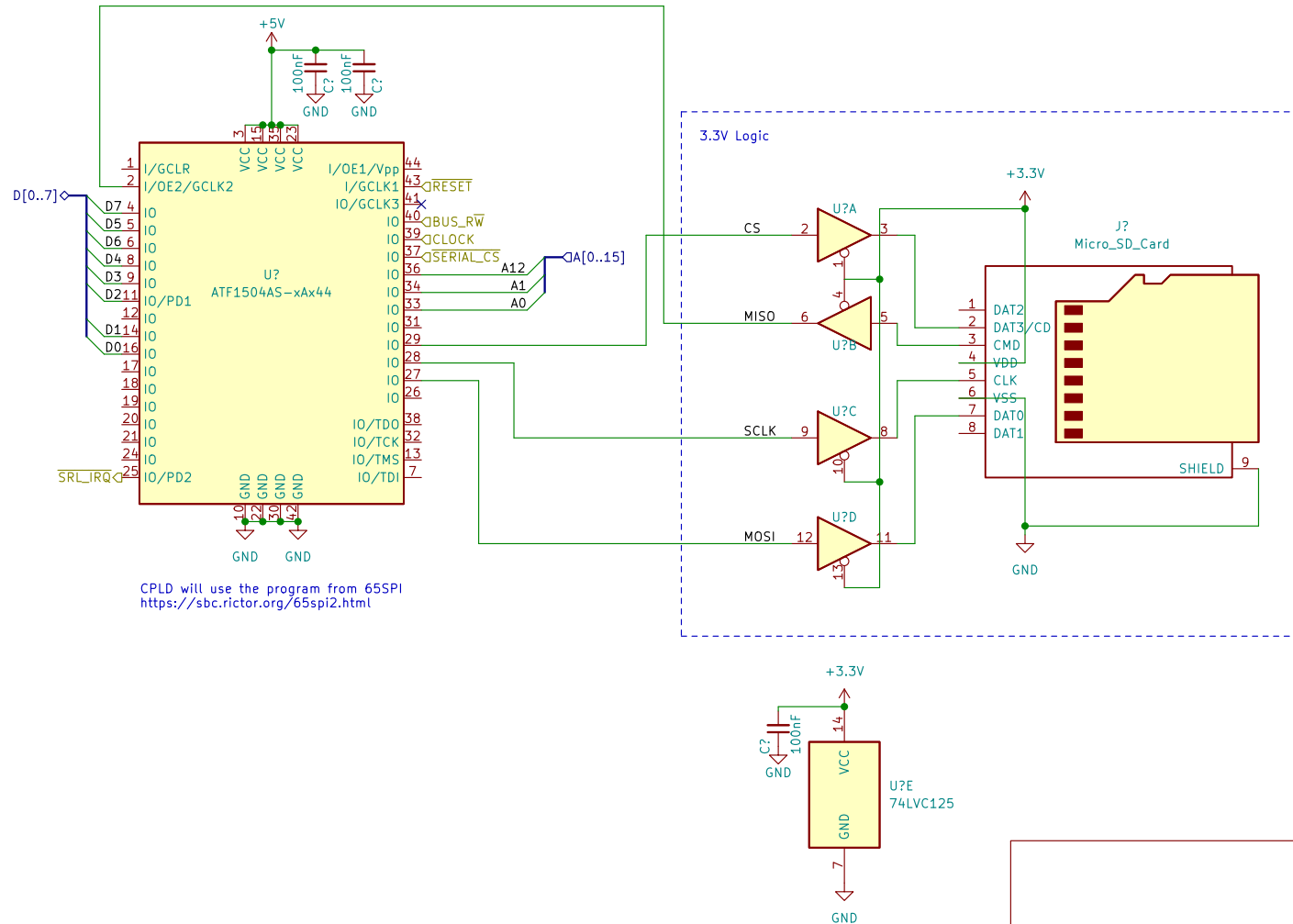
Title: 8puter

Size: A4 Date:
KiCad E.D.A. kicad 6.0.4-1.fc35

Rev: 1.0
Id: 3/7

SPI SD Card Interface

SER: 0x5000 - 0x500F



Sheet: /Storage/		
File: storage.kicad_sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad 6.0.4-1.fc35		Id: 4/7

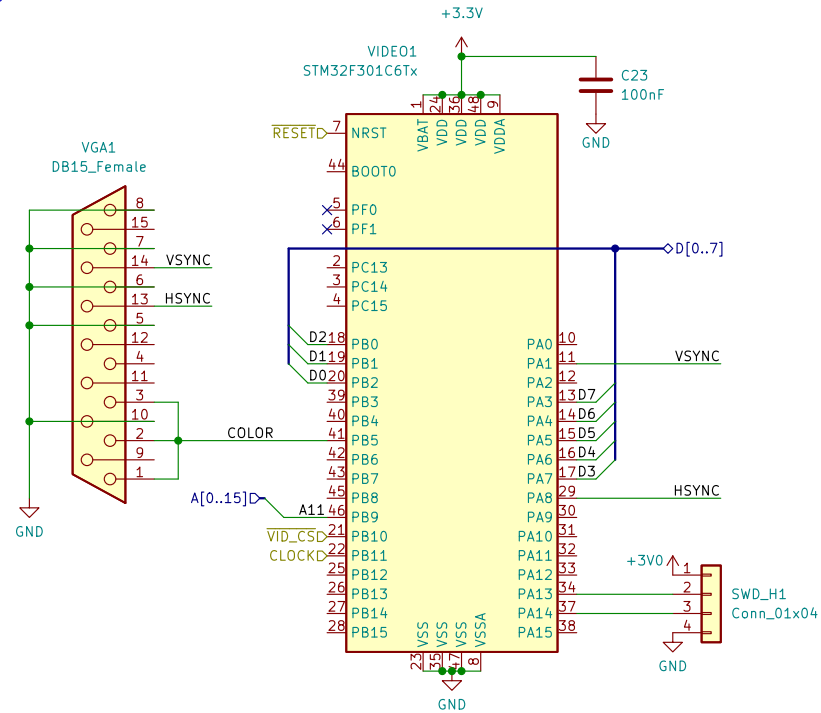
Video Controller

0x4800 – 0x480F

Video will be generated using a microcontroller which is fast enough to generate the VGA timing signals.

CPU will send a single byte to the MCU which can be a char code or index of glyph, and the MCU just generates the video signal.

This setup is limited in generating graphics but it avoids having to keep a large framebuffer.



zrthxn

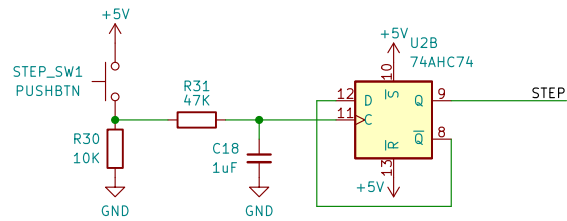
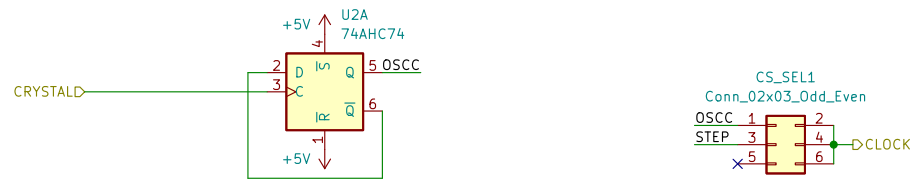
Sheet: /Video/
File: video.kicad_sch

Title: 8puter

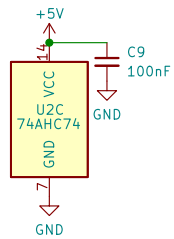
Size: A4 Date:
KiCad E.D.A. kicad 6.0.4-1.fc35

Rev: 1.0
Id: 5/7

Clock Source Select



Clicking the button will take us to the next HALF clock cycle.



zrthxn

Sheet: /Clock/
File: clock.kicad_sch

Title: 8puter

Size: A4 Date:
KiCad E.D.A. kicad 6.0.4-1.fc35

Rev: 1.0
Id: 6/7

Power Delivery

