

Power Supply & Connectors

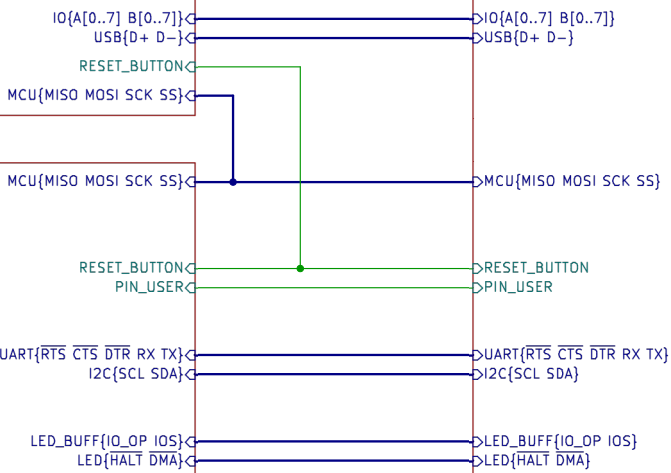
File: Z80Card_Power_And_Conn.kicad_sch

CPU And Core ICs

File: Z80Card_Core.kicad_sch

Peripherals

File: Z80Card_Peripherals.kicad_sch



Change list:
Rev 1:
Initial Revision
Rev 1.1:
- Changed values of resistors for LEDs
- Fixed wrong I2C connection for RTC



Credit-card sized
Z80 computer
based on Z80-MBC2
project by Just4Fun
Drawn by: Galion
Checked by: Galion

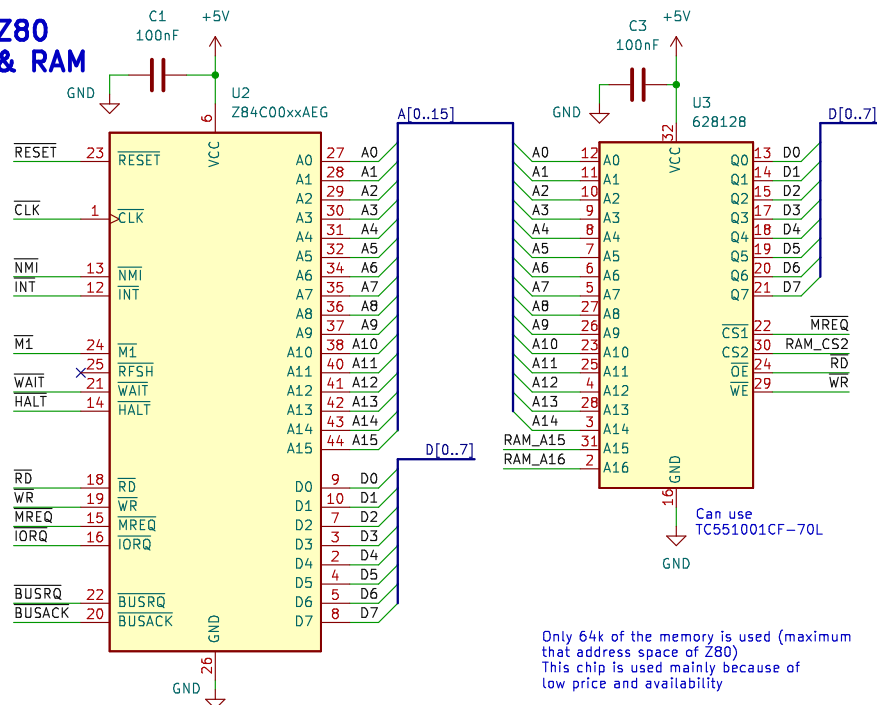
Title: Z80 Card

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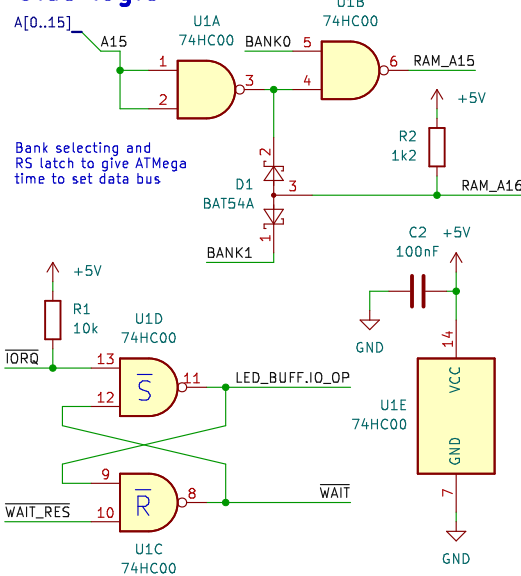
Date: 2023-03-04

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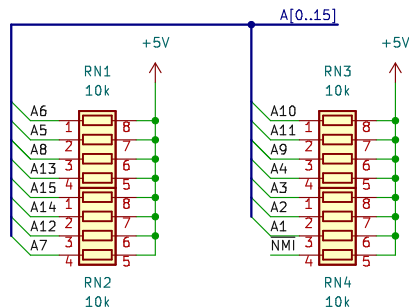
Rev: 1.1



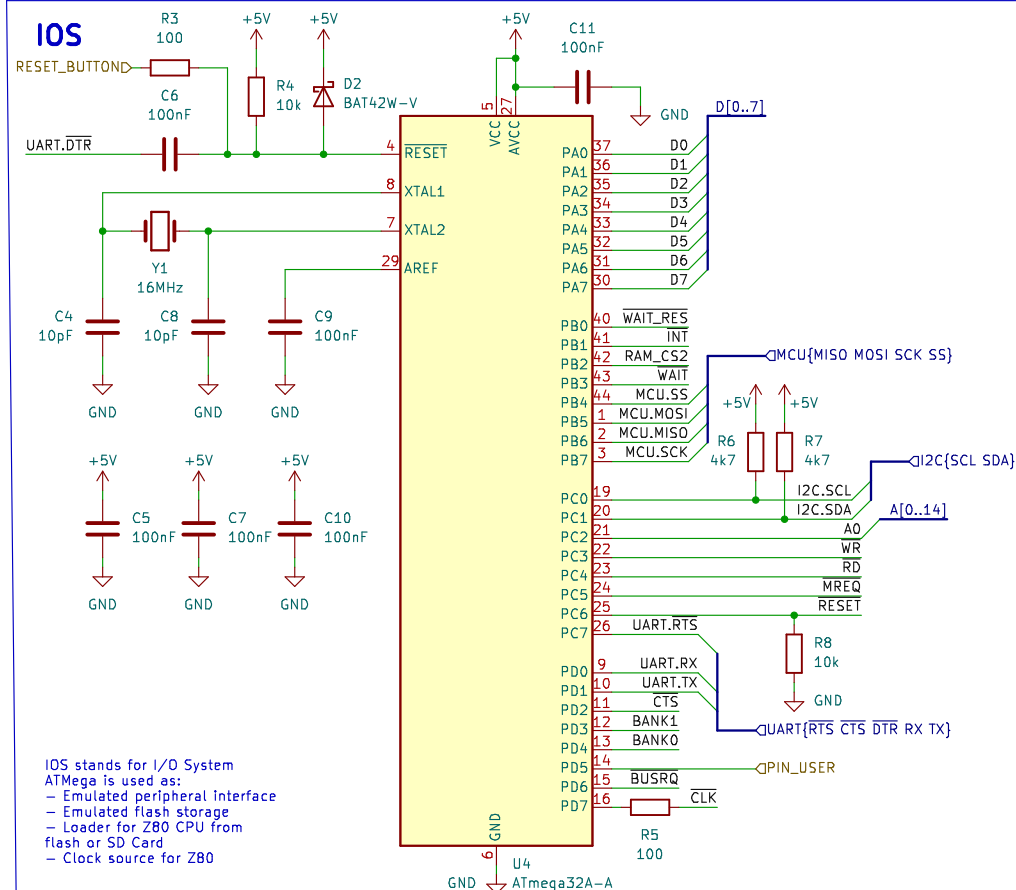
Only 64k of the memory is used (maximum
that address space of Z80)
This chip is used mainly because of
low price and availability



Bus pull-ups

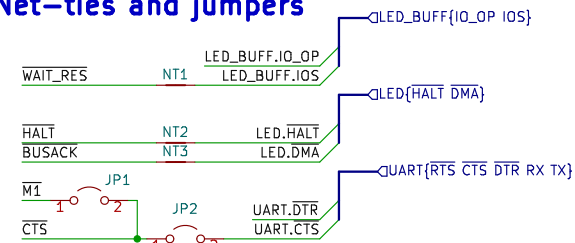


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- IOS stands for I/O System
- ATMega is used as:
 - Emulated peripheral interface
 - Emulated flash storage
 - Loader for Z80 CPU from flash or SD Card
 - Clock source for Z80

Net-ties and jumpers



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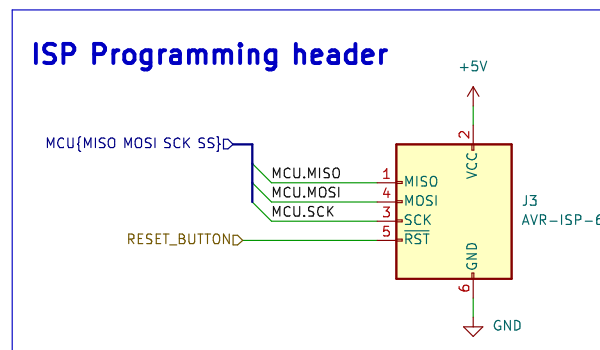
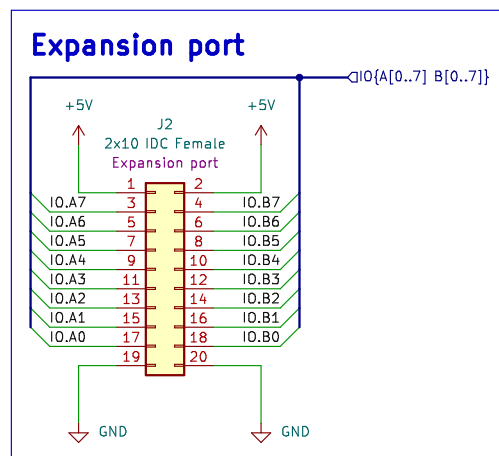
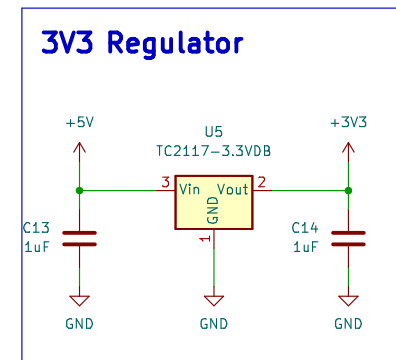
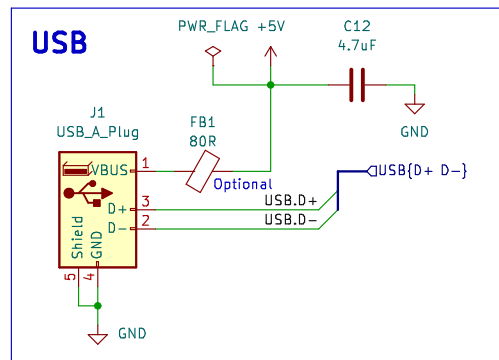
Title: Z80 Card

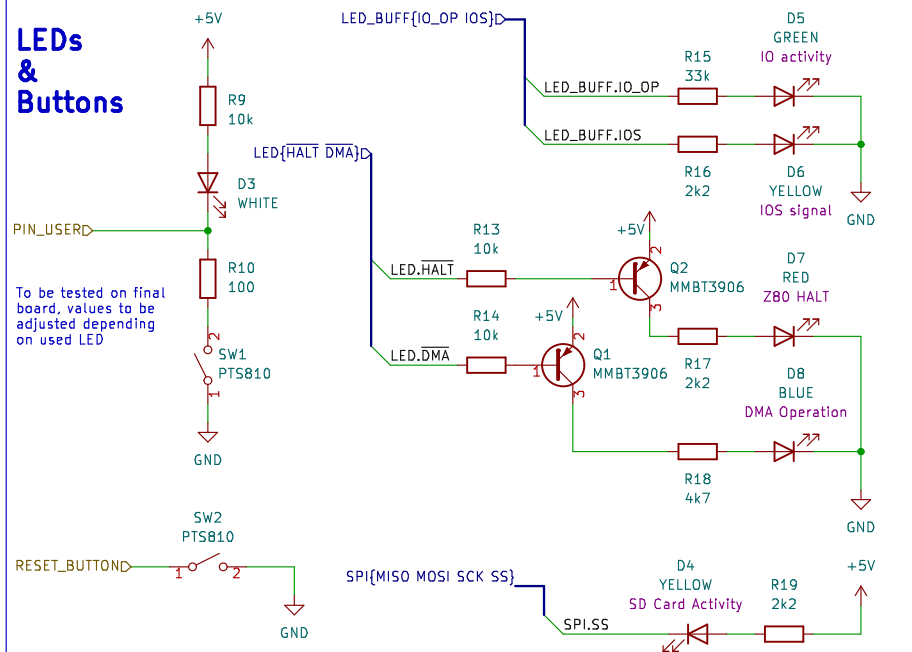
Sheet: /CPU And Core ICs/

Date: 2023-03-04

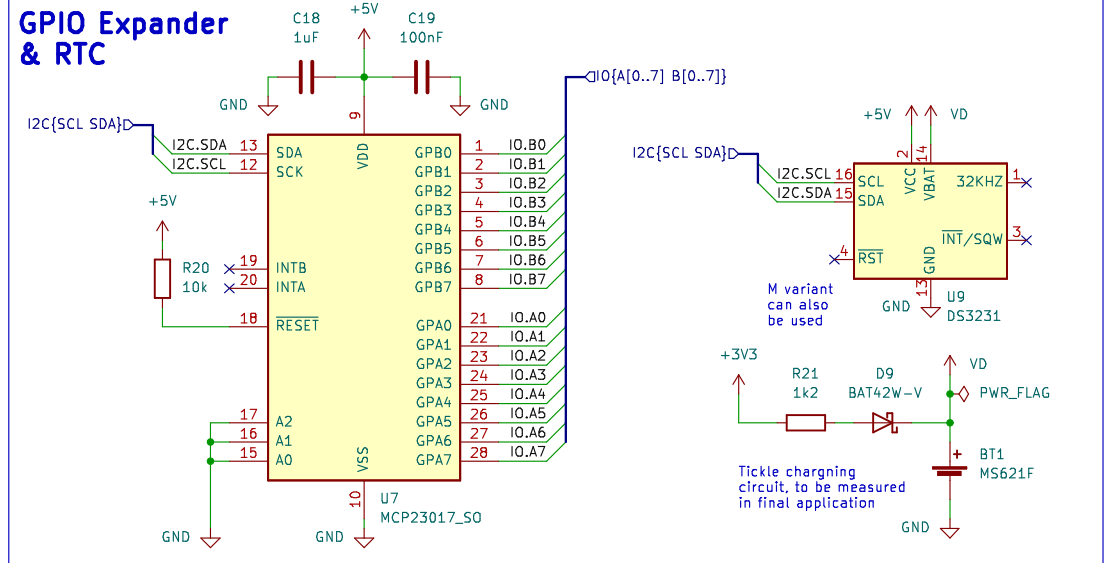
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Rev: 1.1

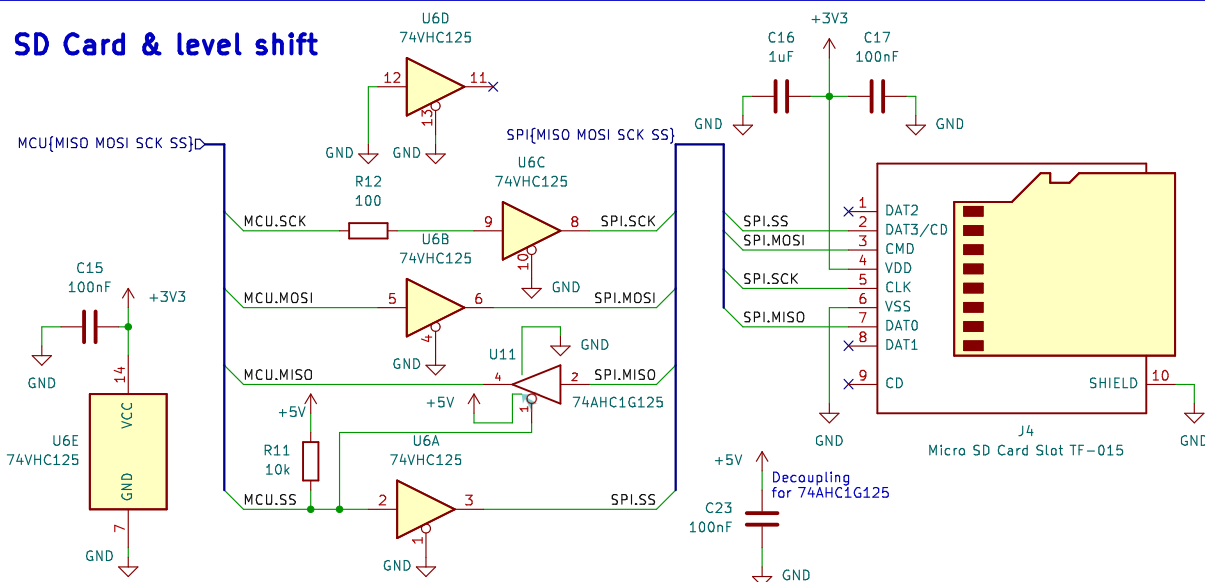




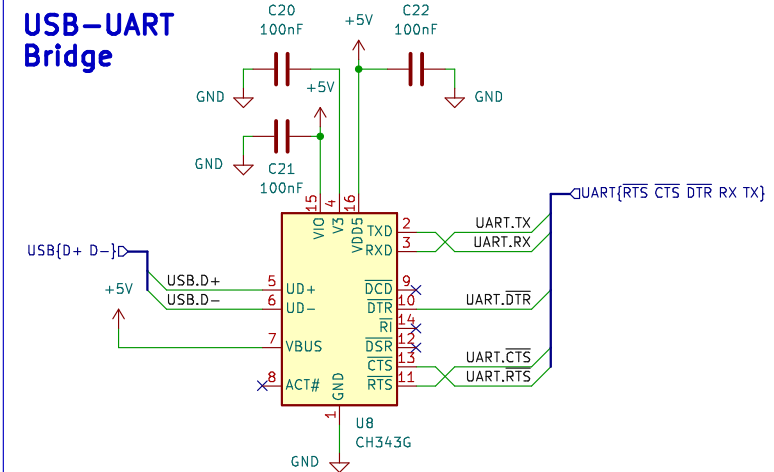
GPIO Expander & RTC



SD Card & level shift



USB-UART Bridge



Credit-card sized
Z80 computer
based on Z80-MBC2
project by Just4Fun

Drawn by: Galion
Checked by: Galion

Title: Z80 Card

Sheet: /Peripherals/

Date: 2023-03-04

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Rev: 1.1