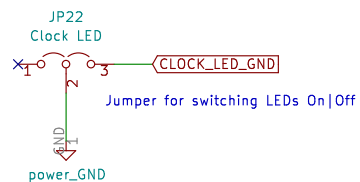


Rev4 NC added



Spare
74LS08 NC @6,11,12,13
74LS32 NC @4,5,6,8,9,10,11,12,13
74LS04 NC @8,9,10,11,12,13

Added onboard the Ben Eater Step Clock module design (as modified by David Buchwald).
LEDs are 3mm "supa-bright". Suggest fiddle with resistors to suit preferred brightness.

Original Author: Dawid Buchwald with AT65C02 additions
Based on Ben Eater's design. AndersB Nielsen for the "Simple Universal Modem" design.
Tebl for the Blinkies. Daryl Rictor for the DEC-1 design.
Revisions to Dawid Buchwald design and additions as marked.
This AT65C02 version by AdamT117.

Sheet: /Clock/
File: Clock.sch

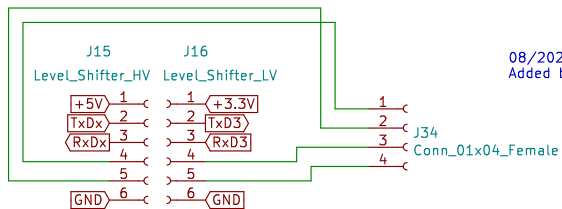
Title: AT65C02 Hobby Computer

Size: A4 Date: 2023-08-06

KiCad E.D.A. kicad (5.1.9)-1

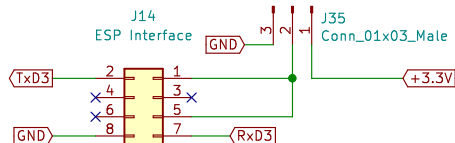
Rev: Rev004

Id: 4/7



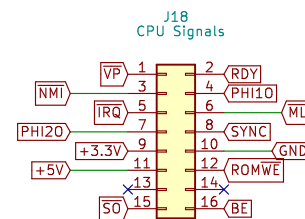
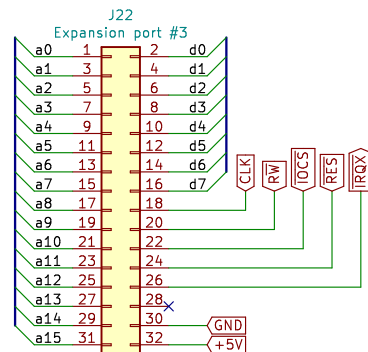
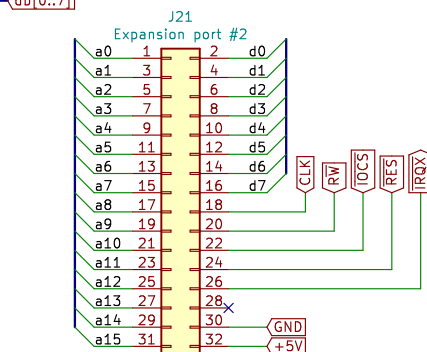
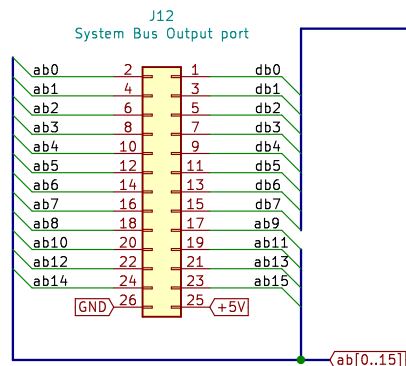
08/2023
Added breakouts for spares on level shifter

Level shifter and ESP port



08/2023
Switch for wireless

Port is via blinky latches for display expansion (HEX board)

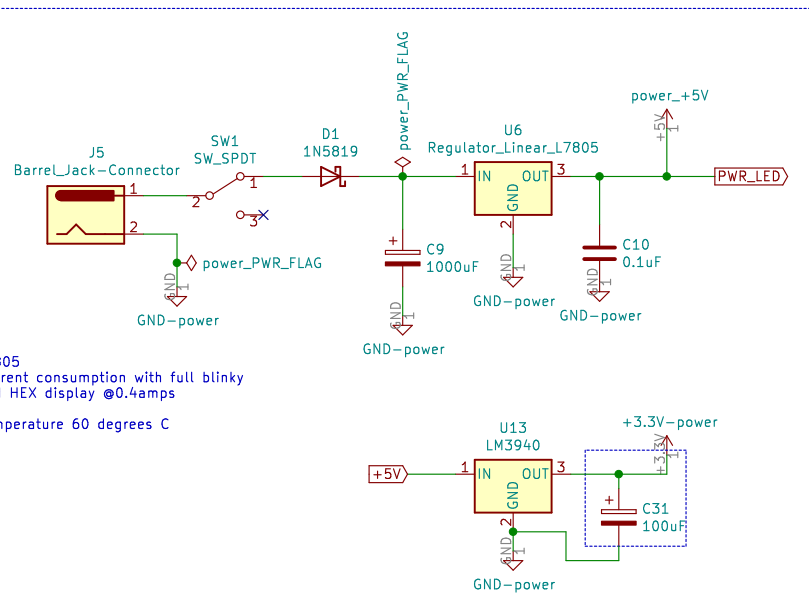
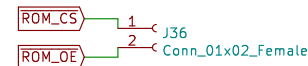


Capacitor C31 100uF
minimum according to datasheet is 33uF.
Please check output voltage before
using as less than this value results
in 4.8v output.

08/2023
Changed JP18 to standard header size

ROM WE should be tied
to 5V for normal operation

Added header for the additional signals
from CPU and ROM



L7805
Current consumption with full blinky
and HEX display @0.4amps

Temperature 60 degrees C

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Revisions to Dawid Buchwald design and additions as marked.

This AT65C02 version by AdamT117.

Sheet: /Power_Connectors/
File: Power_Connectors.sch

Title: AT65C02 Hobby Computer

Size: A4 Date: 2023-08-06

KiCad E.D.A. kicad (5.1.9)-1

Rev: Rev004

Id: 5/7

