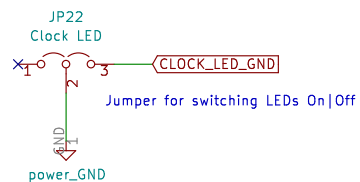


Rev4 NC added



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

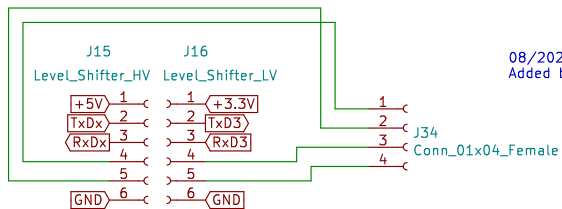
### Title: AT65C02 Hobby Computer

Size: A4 Date: 2023-08-06

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

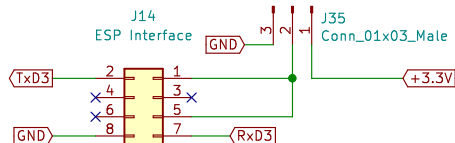
Rev: Rev004

Id: 4/7



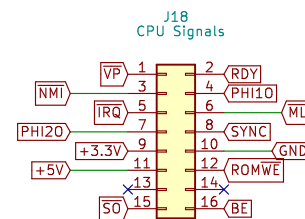
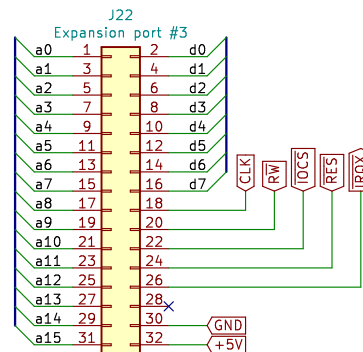
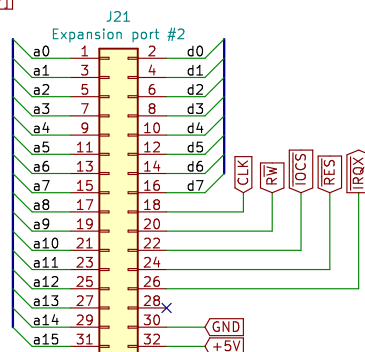
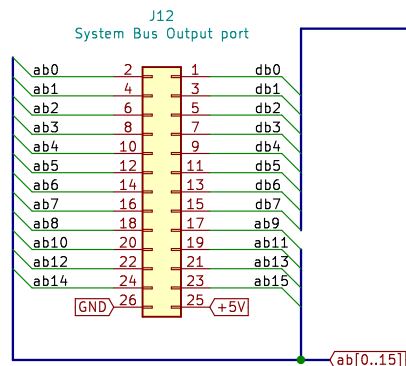
08/2023  
Added breakouts for spares on level shifter

Level shifter and ESP port



08/2023  
Switch for wireless

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

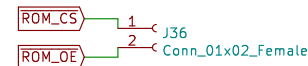


Capacitor C31 100uF  
minimum according to datasheet is 33uF.  
Please check output voltage before  
using as less than this value results  
in 4.8v output.

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



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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

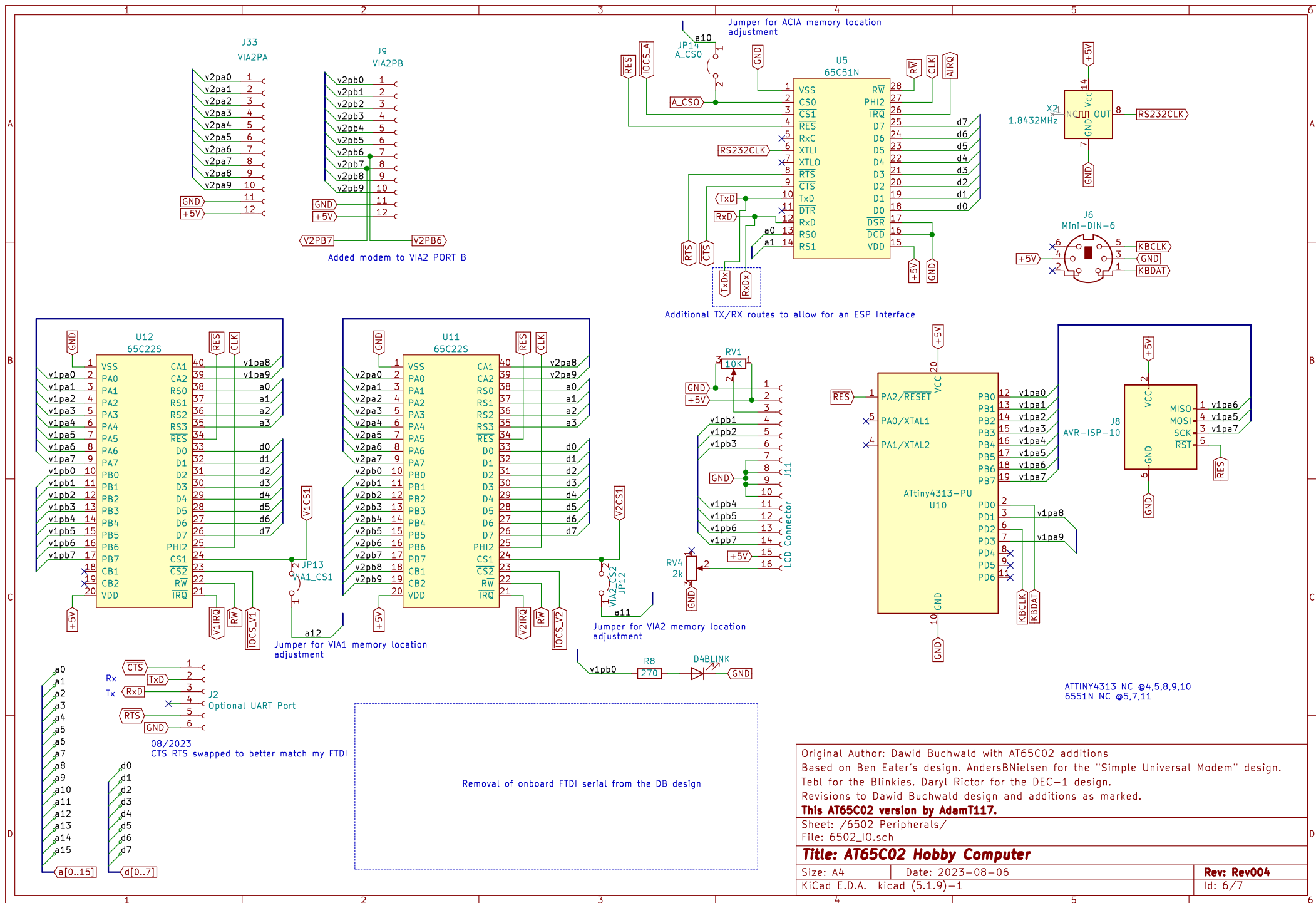
**Title: AT65C02 Hobby Computer**

Size: A4 Date: 2023-08-06

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

Rev: Rev004

Id: 5/7



Original Author: Dawid Buchwald with AT65C02 additions  
Based on Ben Eater's design. AndersBNielsen 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: /6502 Peripherals/  
File: 6502\_I0.sch

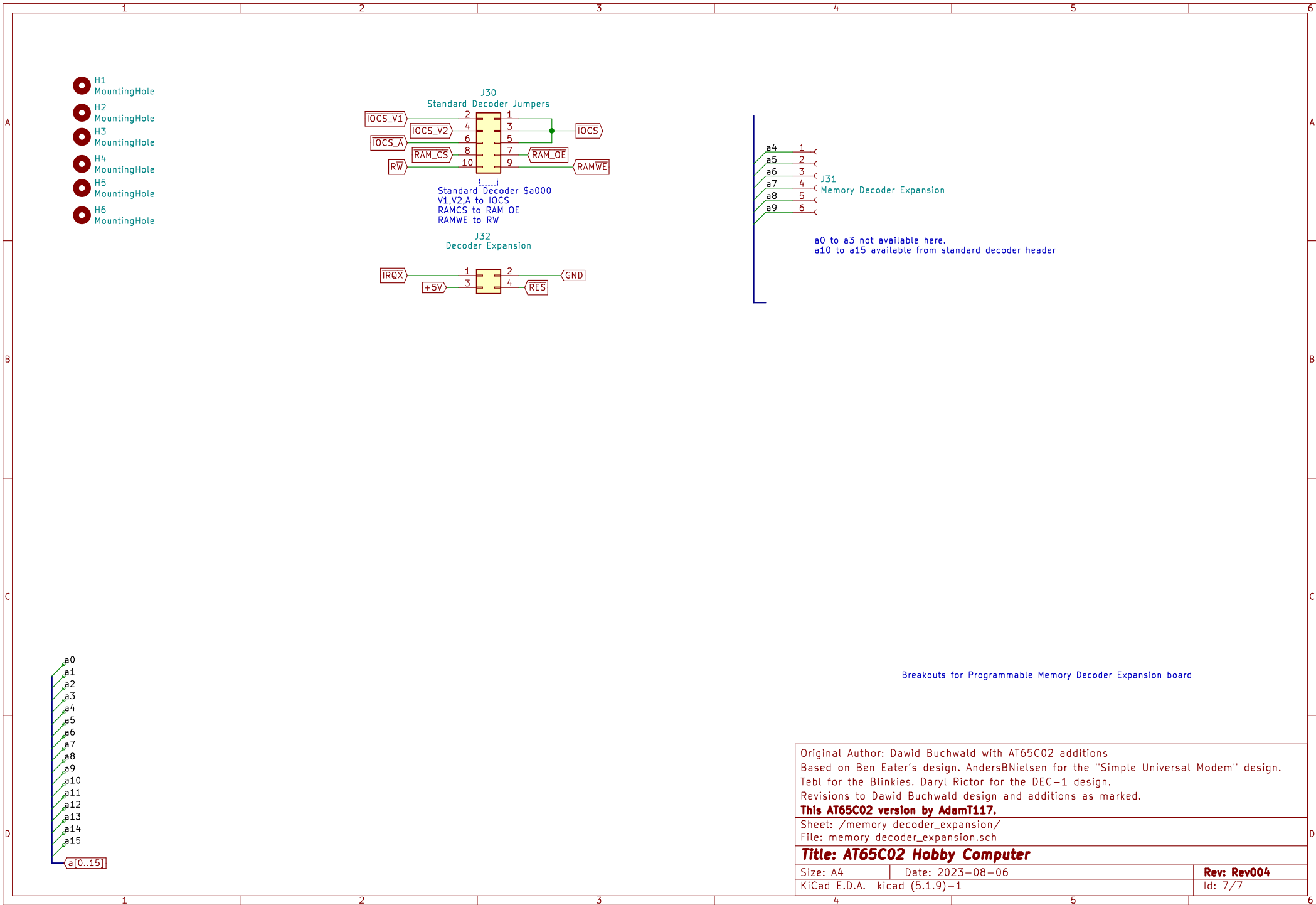
**Title: AT65C02 Hobby Computer**

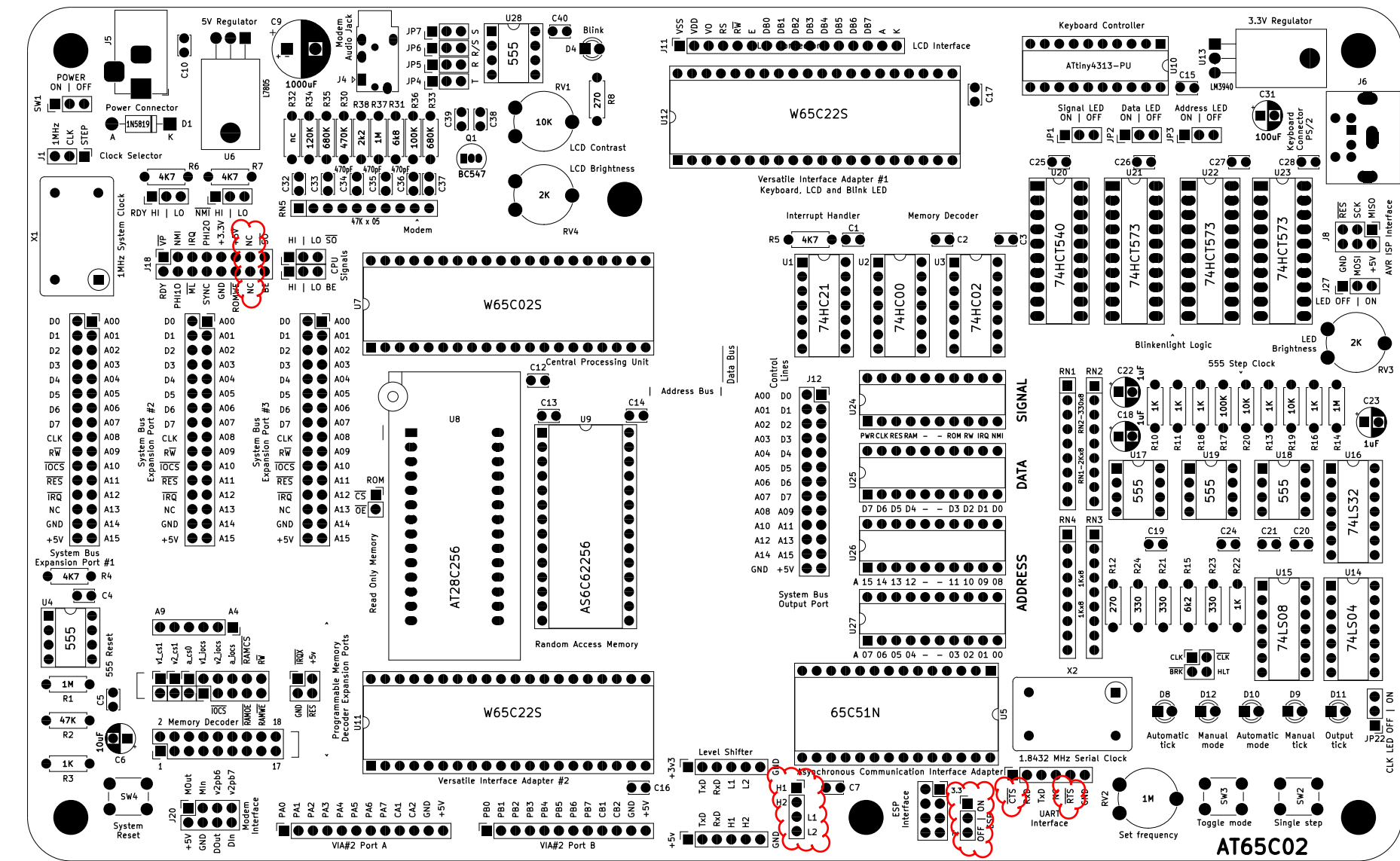
Size: A4 Date: 2023-08-06

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

**Rev: Rev004**

Id: 6/7





Latest revisions

Original Author: Dawid Buchwald with AT65C02 additions

This AT65C02 version by AdamT117.

Sheet:  
File: AT\_65C02\_Computer\_Rev004.kicad\_pcb

Title: AT65C02 Hobby Computer

Size: A3 Date: 2023-08-06

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

Rev: Rev004

Id: 1/1