

bus

File: bus.kicad\_sch

DUART

File: DUART.kicad\_sch

kbdmse

File: kbdmse.kicad\_sch

GAL

File: GAL.kicad\_sch

power

File: power.kicad\_sch

parallel

File: parallel.kicad\_sch

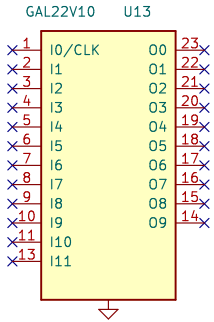
USB-SD

File: USB-SD.kicad\_sch

buffers

File: buffers.kicad\_sch

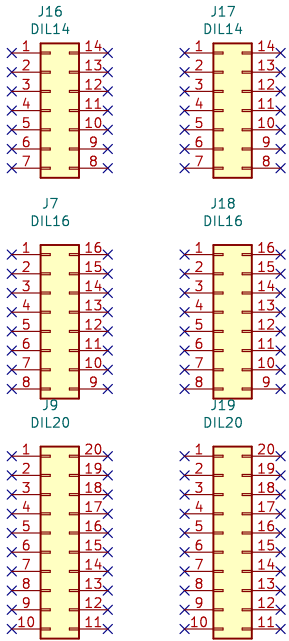
SPARE GAL FOR  
DEBUGGING



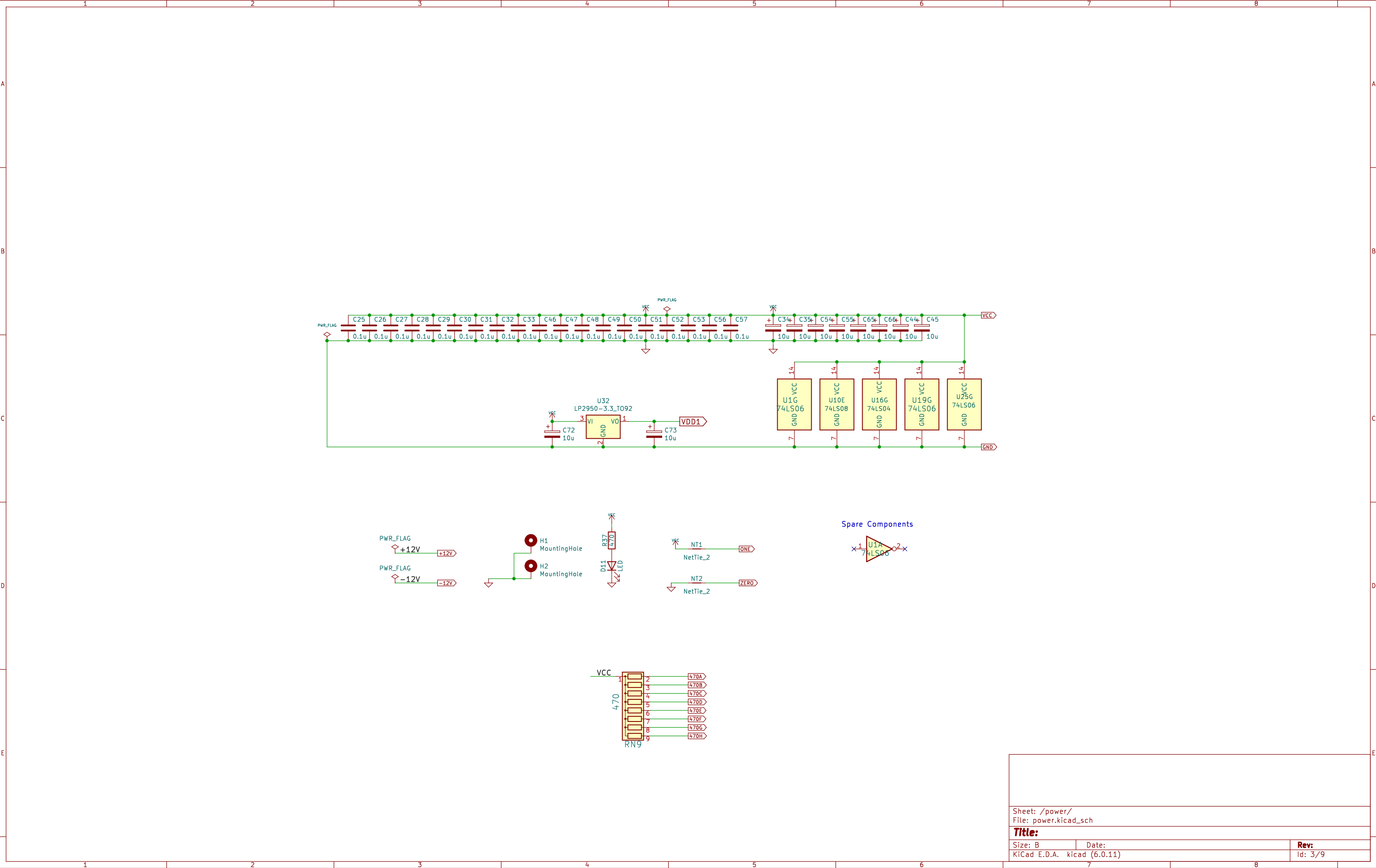
THROUGH HOLES FOR  
PATCH WIRE ROUTING  
ACROSS SIDES



SPARE SOCKETS  
FOR DEBUGGING





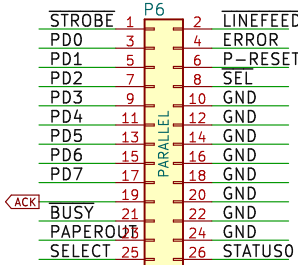
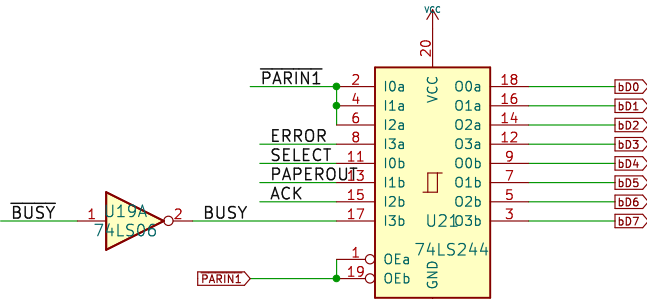
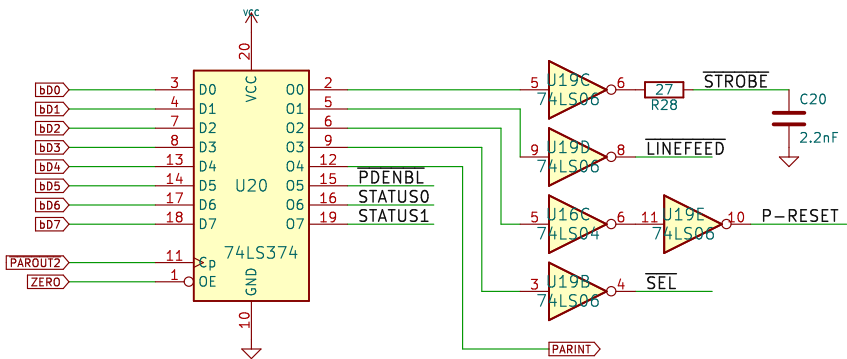
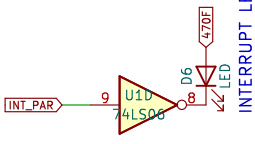
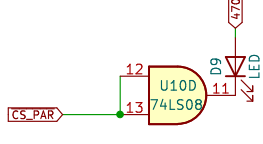
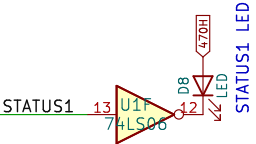
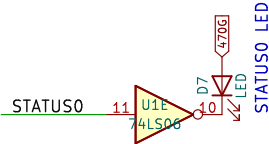
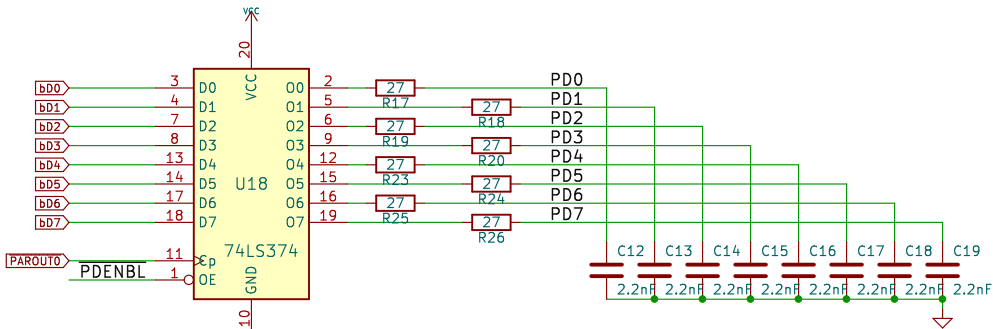
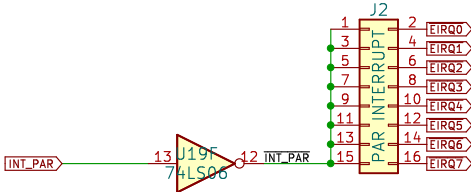
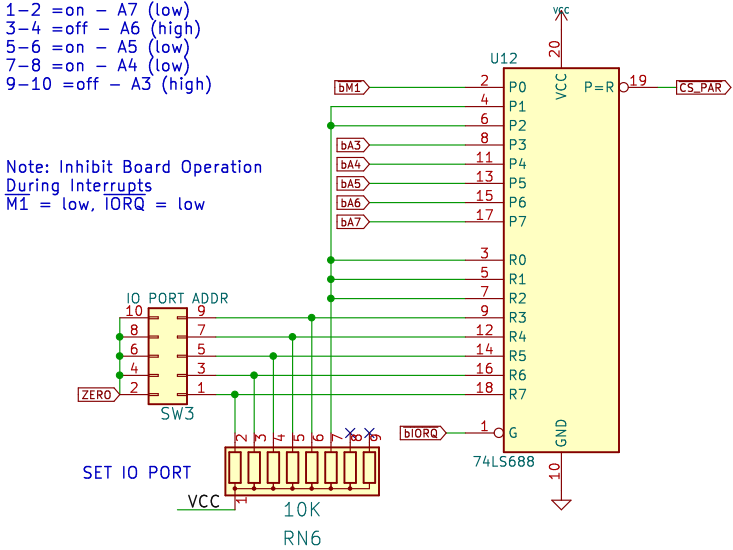




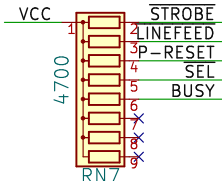
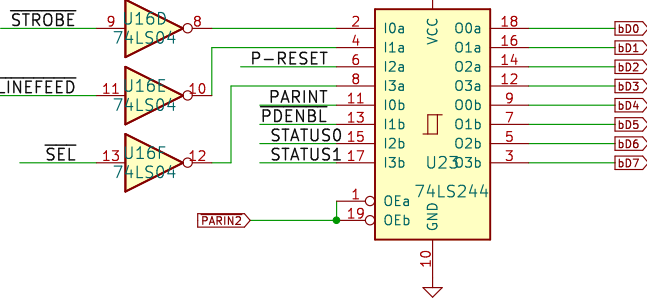
IO SELECTION CIRCUIT  
PARALLEL PORT, PS/2 KEYBOARD & MOUSE, USB-SD

Note: IO Address Port \$48-\$4F  
1-2 =on - A7 (low)  
3-4 =off - A6 (high)  
5-6 =on - A5 (low)  
7-8 =on - A4 (low)  
9-10 =off - A3 (high)

Note: Inhibit Board Operation  
During Interrupts  
M1 = low, IORQ = low



NOTE: STATUS0 WILL NOT APPEAR  
ON IBM PC COMPATIBLE DB25  
FEMALE CONNECTOR



PARALLEL PORT BASED ON SCHEMATIC AT  
<http://www.linux-cae.net/Projects/Parallel/Dage/parport.html>

Sheet: /parallel/  
File: parallel.kicad\_sch

Title:

Size: B

Date:

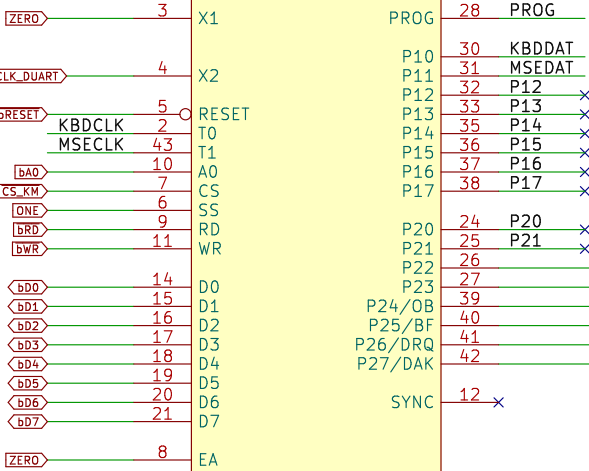
KiCad E.D.A. kicad (6.0.11)

Rev:

Id: 5/9

KEYBOARD AND MOUSE

PWR\_FLAG  
NT5  
NetTie\_2  
U26

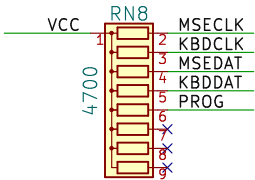


NOTE: IMPORTANT

KNOWN TO WORK:  
- VT82C42N (VIA)

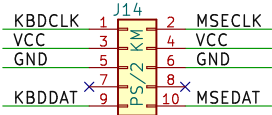
LIKELY TO WORK BUT UNTESTED:  
- HT6542B (Holtek)  
- 83C42 (Western Digital)  
- KBD42W11 (SMSC)

KNOWN DO NOT WORK:  
- 8042 (Intel & clones of PC/AT era)



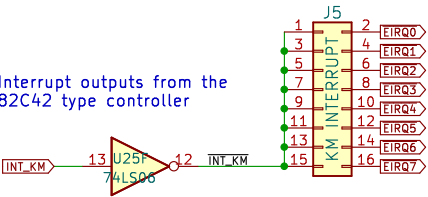
PWR\_FLAG  
NT4  
NetTie\_2  
GND

PS/2 KEYBOARD & MOUSE INTERFACE  
[https://www.frontx.com/cpx109\\_2.html](https://www.frontx.com/cpx109_2.html)



PS/2 KEYBOARD & MOUSE INTERFACE

Interrupt outputs from the  
82C42 type controller



Sheet: /kdbmse/  
File: kdbmse.kicad\_sch

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Size: B

Date:

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