bus

File: bus.kicad_sch

PPIDE

File: PPIDE.kicad_sch

GAL

File: GAL.kicad_sch

IO

File: IO.kicad_sch

power

File: power.kicad_sch

FDC

File: FDC.kicad_sch

buffers

File: buffers.kicad_sch

WIZNET

File: WIZNET.kicad_sch

SPARE SOCKETS FOR DEBUGGING

J1
DIL14

J4
DIL14

J2
DIL16

J5
DIL16

J3
DIL20

J6
DIL20

Sheet: /
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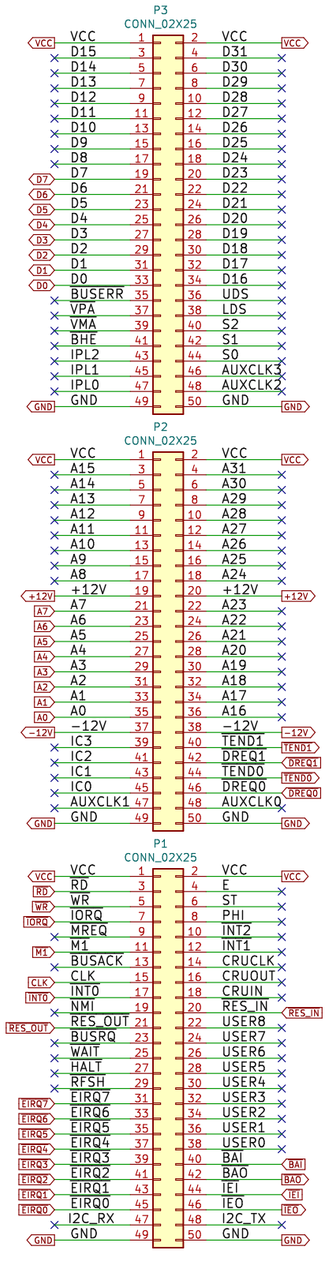
Size: B	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.11)		Id: 1/9



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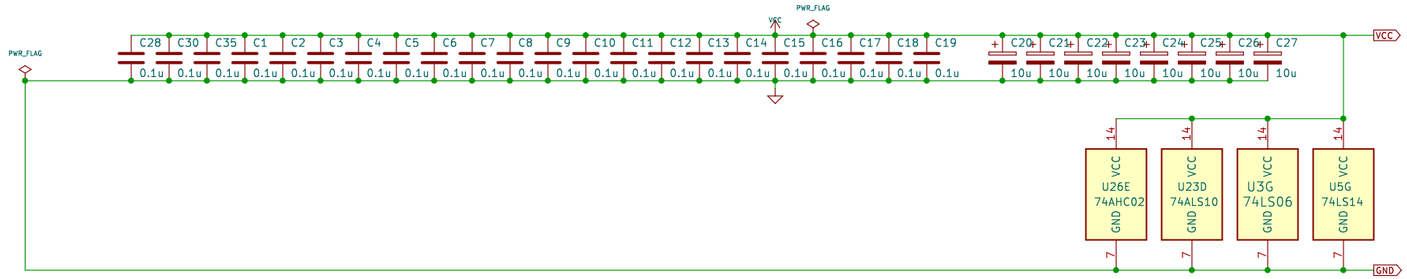
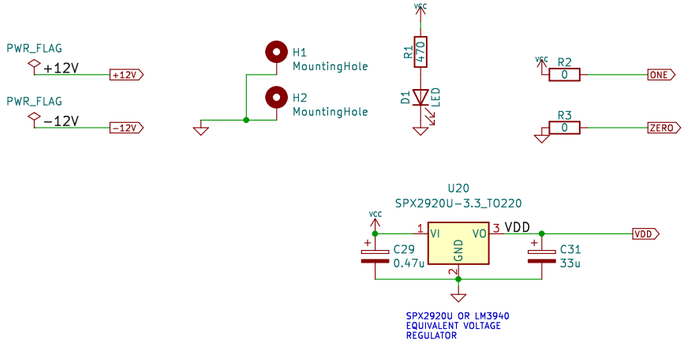
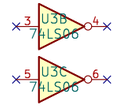
KiCad E.D.A. kicad (6.0.11)		Id: 2/9





Spare Components



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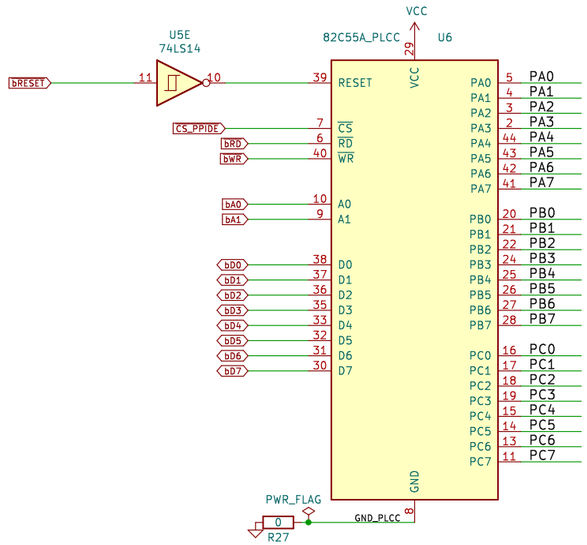
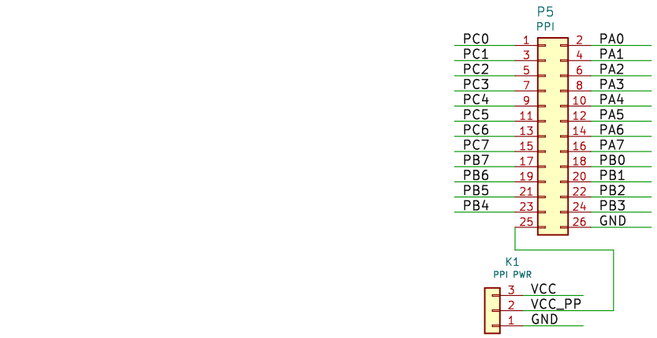
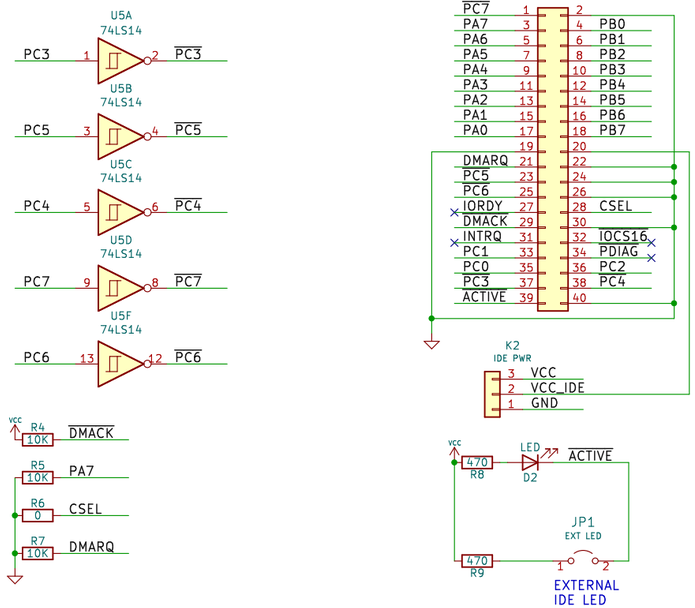
KiCad E.D.A. kicad (6.0.11)		Id: 3/9







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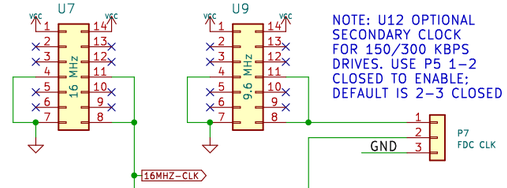
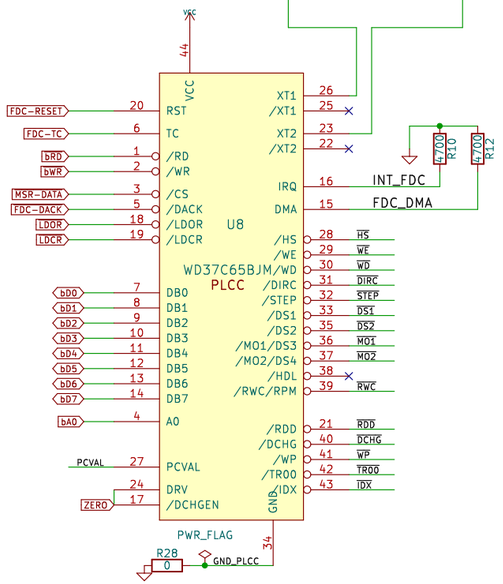
Title:		
Size: B	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.11)		Id: 4/9

FLOPPY DRIVE INTERFACE

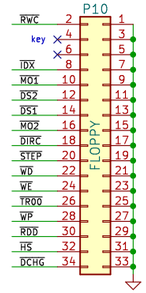
IO Ports
x0 read Main Status Register
x1 read/write Data In/Out
x2 read/write Terminal Count
x3 read/write User Reset FDC
x4 <none>
x5 write Load Control Register
x6 read DMA Acknowledge/write Load Operations Register
x7 read DMA Acknowledge and Terminal Count



NOTE: U12 OPTIONAL
SECONDARY CLOCK
FOR 150/300 KBPS
DRIVES. USE P5 1-2
CLOSED TO ENABLE;
DEFAULT IS 2-3 CLOSED

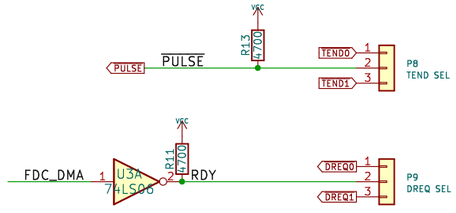


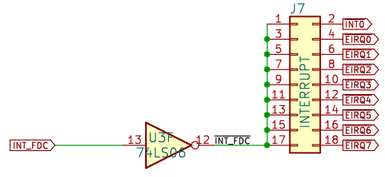
IBM floppy connector
A: = DS1 (no twist)
B: = DS2 (twist)



NOTE: REPLACE RP1 WITH 150 OHM
9 PIN SIP RESISTOR PACK FOR
LEGACY FLOPPY DRIVES; 1000 OHM
FOR 3.5" IBM PC 1.44MB COMPATIBLE

EXTERNAL DMA INTERFACE





NOTE: RELIES ON 4700 OHM PULL UP
RESISTOR ON Z80 PROCESSOR BOARD

Sheet: /FDC/	
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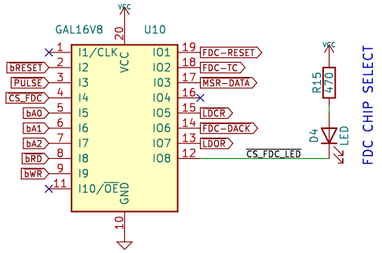
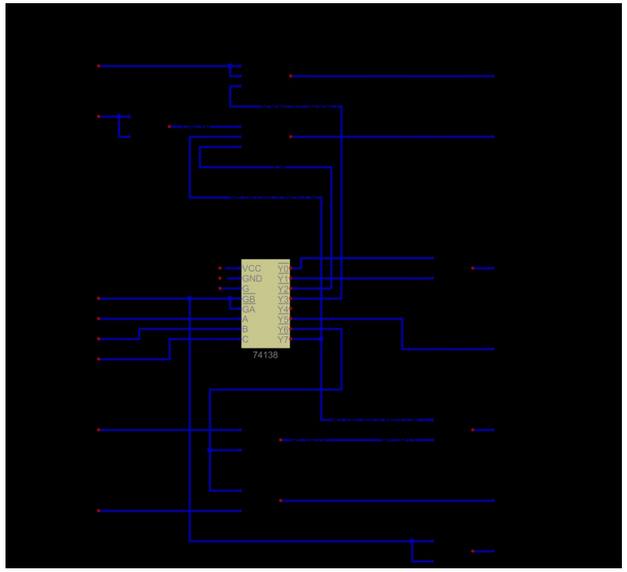
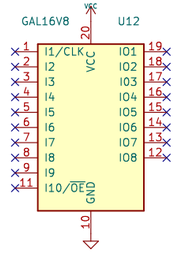
Title:	
Size: B	Date:
KiCad E.D.A. kicad (6.0.11)	Id: 5/9

FDC DMA GAL16V8

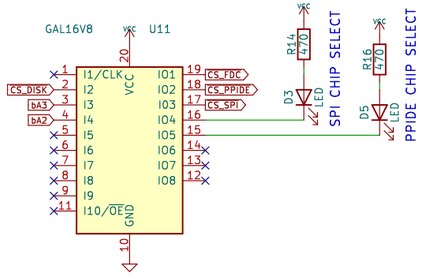


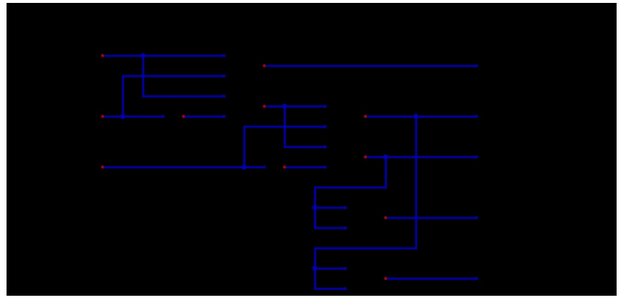


SPARE GAL FOR DEBUGGING



DISK CS GAL16V8



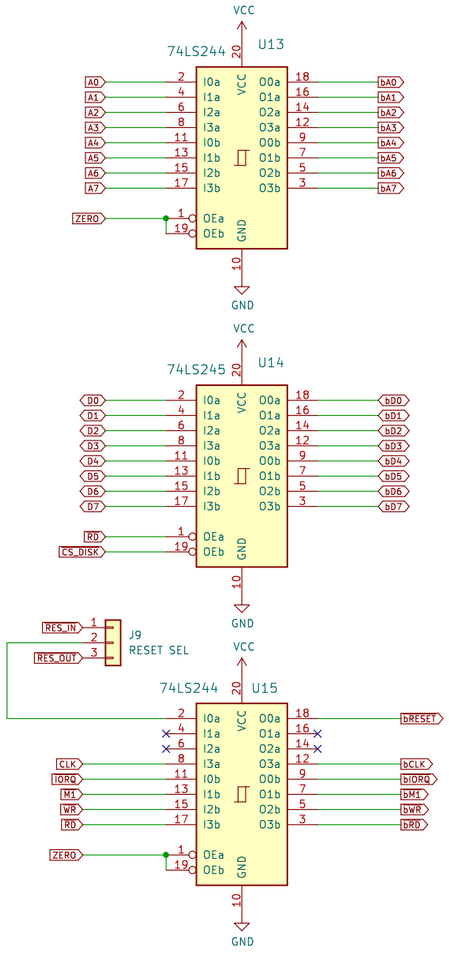


Sheet: /GAL/
File: GAL.kicad_sch

Title:

Size: B	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.11)		Id: 6/9

Z80 BUS INTERFACE



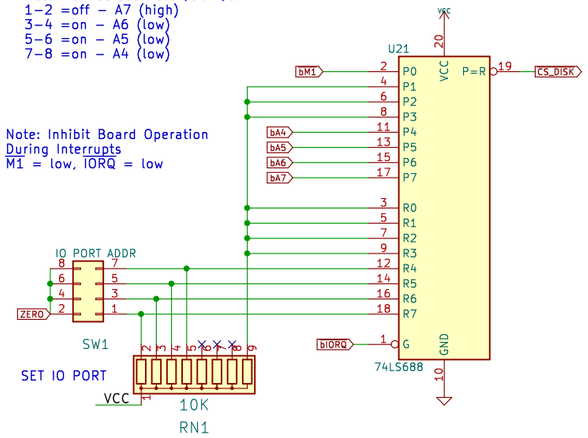
Note: Buffers and Transceivers
respond to IO and MEM cycles

Sheet: /buffers/		
File: buffers.kicad_sch		
Title:		
Size: B	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.11)		Id: 7/9

IO SELECTION CIRCUIT
FDC, PPIDE, SPI-SD

Note: IO Address Port $80-$8F
1-2 =off - A7 (high)
3-4 =on - A6 (low)
5-6 =on - A5 (low)
7-8 =on - A4 (low)

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



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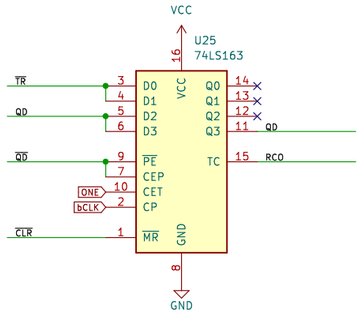

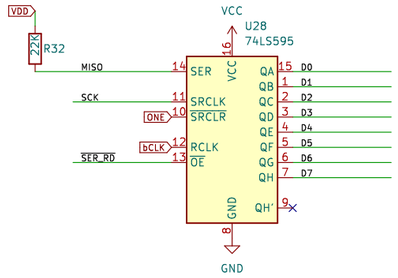

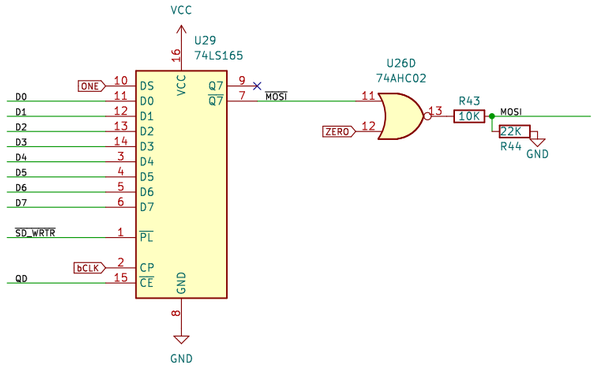

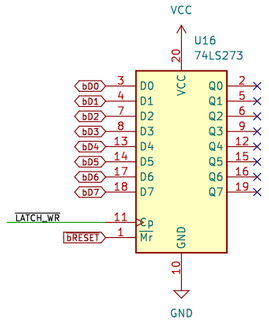

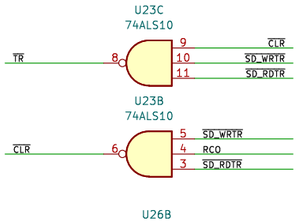

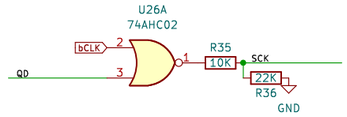

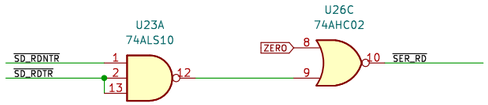

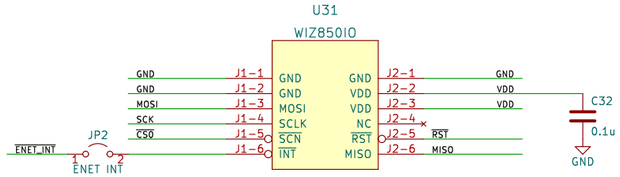

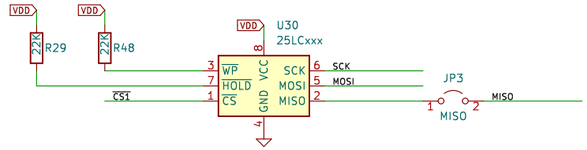

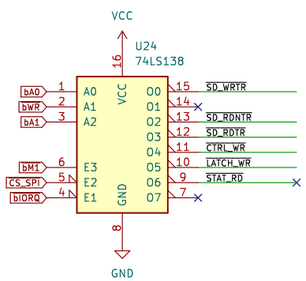

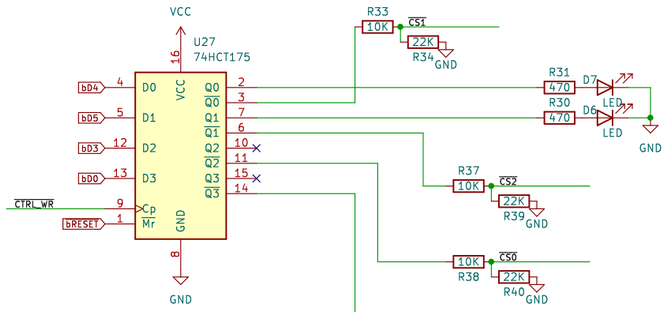

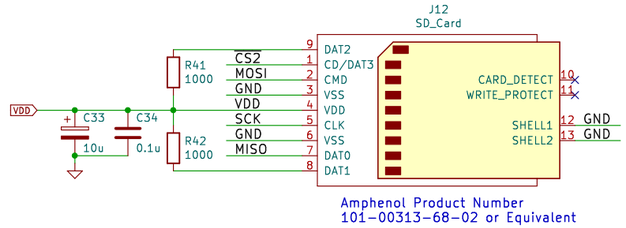

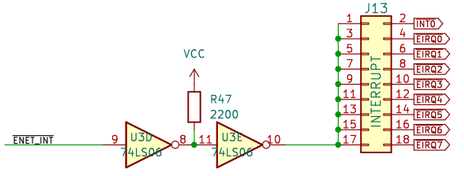

NOTE: RELIES ON 4700 OHM PULL UP
RESISTOR ON Z80 PROCESSOR BOARD

Sheet: /WIZNET/	
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Size: B	Date:
KiCad E.D.A. kicad (6.0.11)	Id: 11/9