External sheets

Power
File: power.kicad_sch

Local32
File: local32.kicad_sch

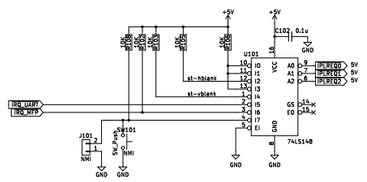
Local16
File: local16.kicad_sch

ISA
File: isa.kicad_sch

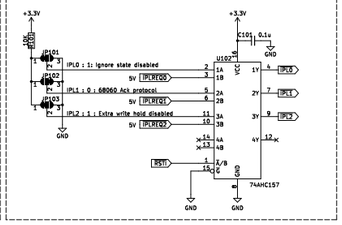
Misc
File: misc.kicad_sch

Device interrupt requests

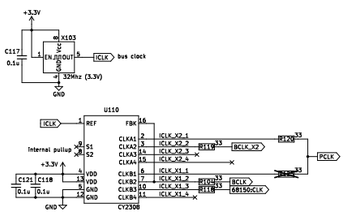
5V



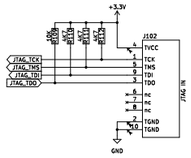
CPU interrupt triggger + startup config



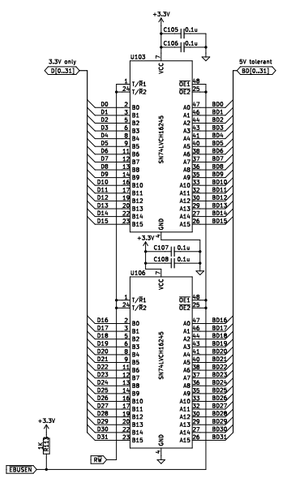
Clock



JTAG

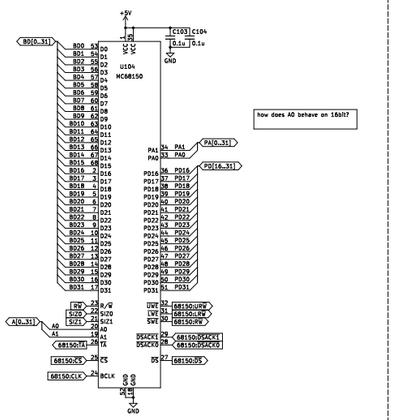


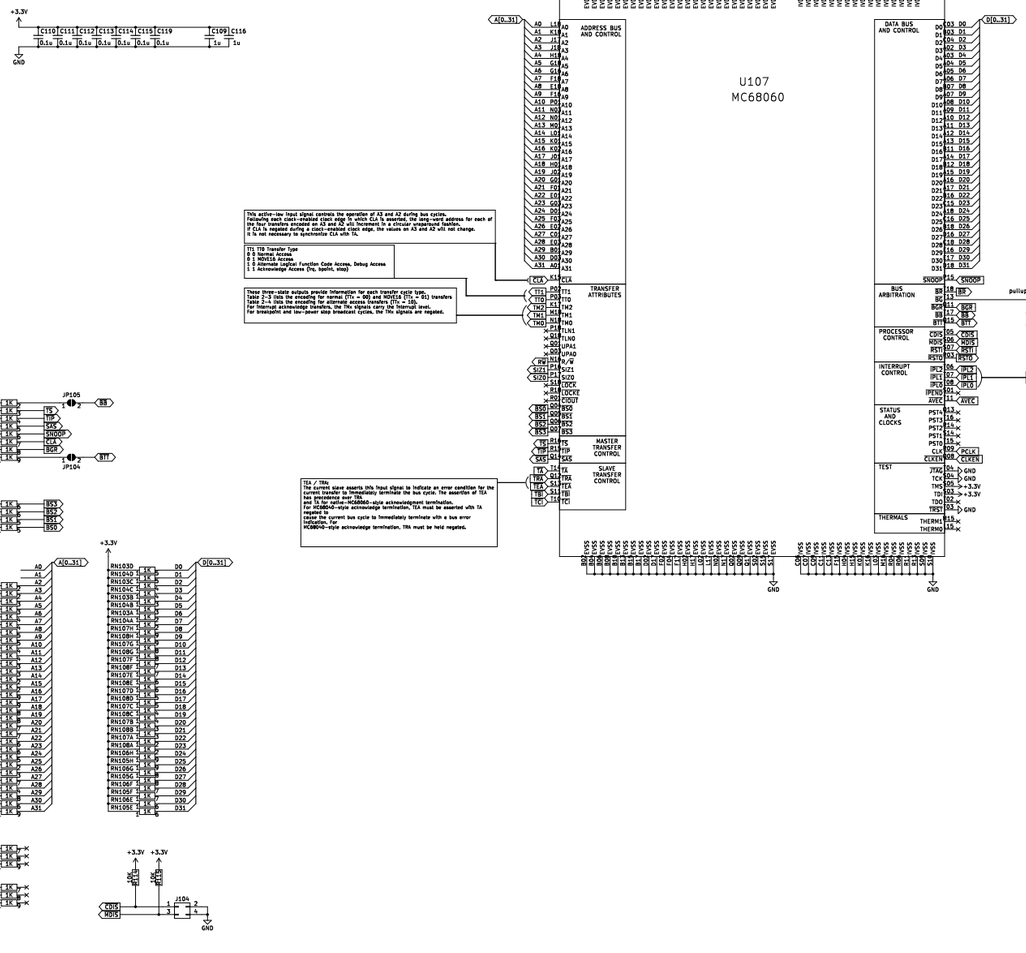
5V data bus



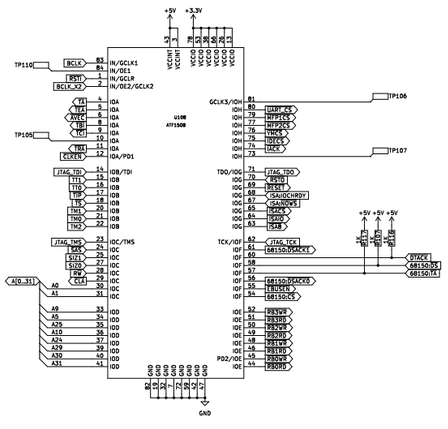
8/16 bit bus sizer

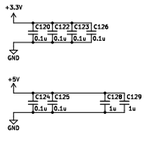
5V

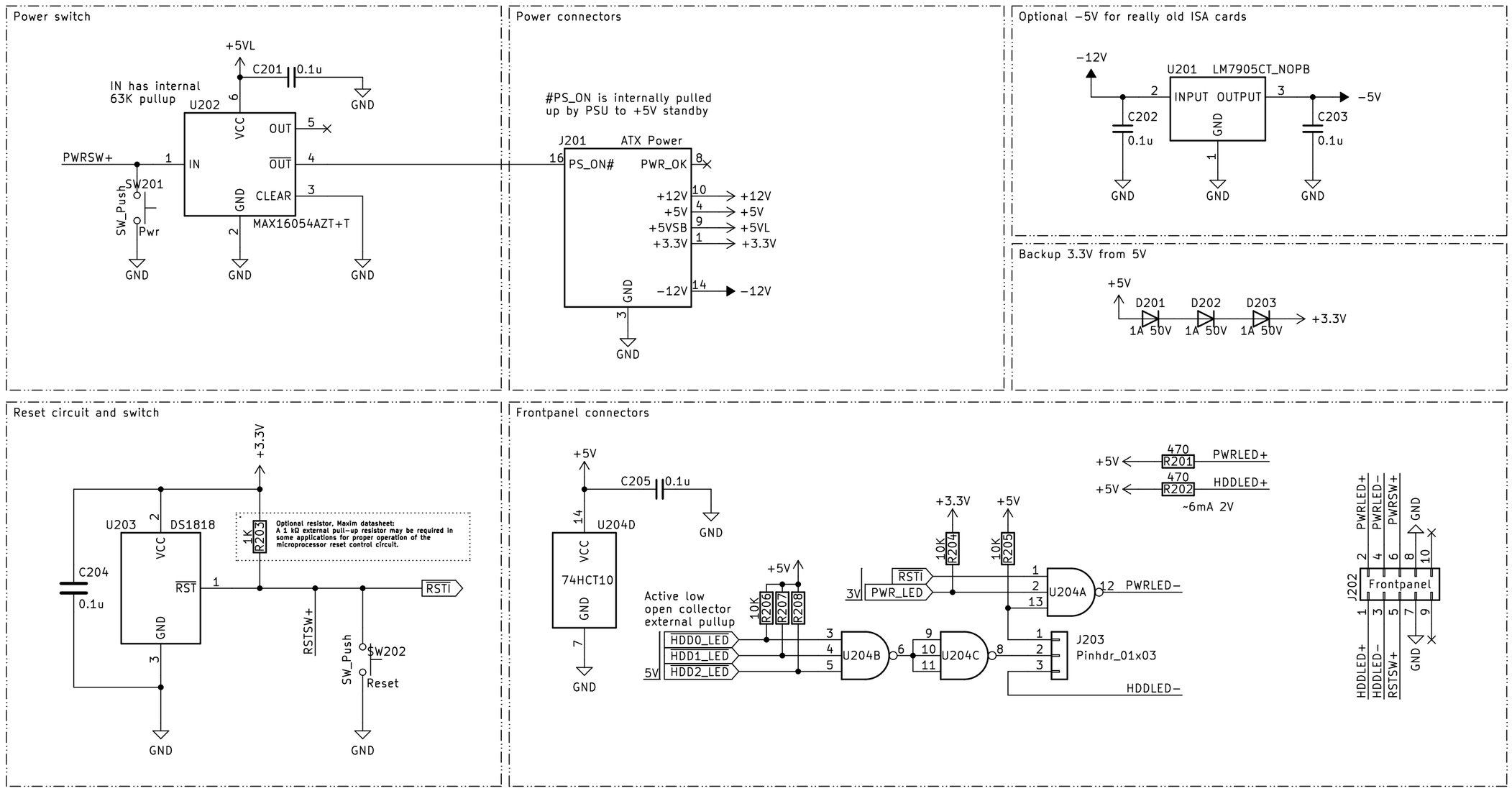




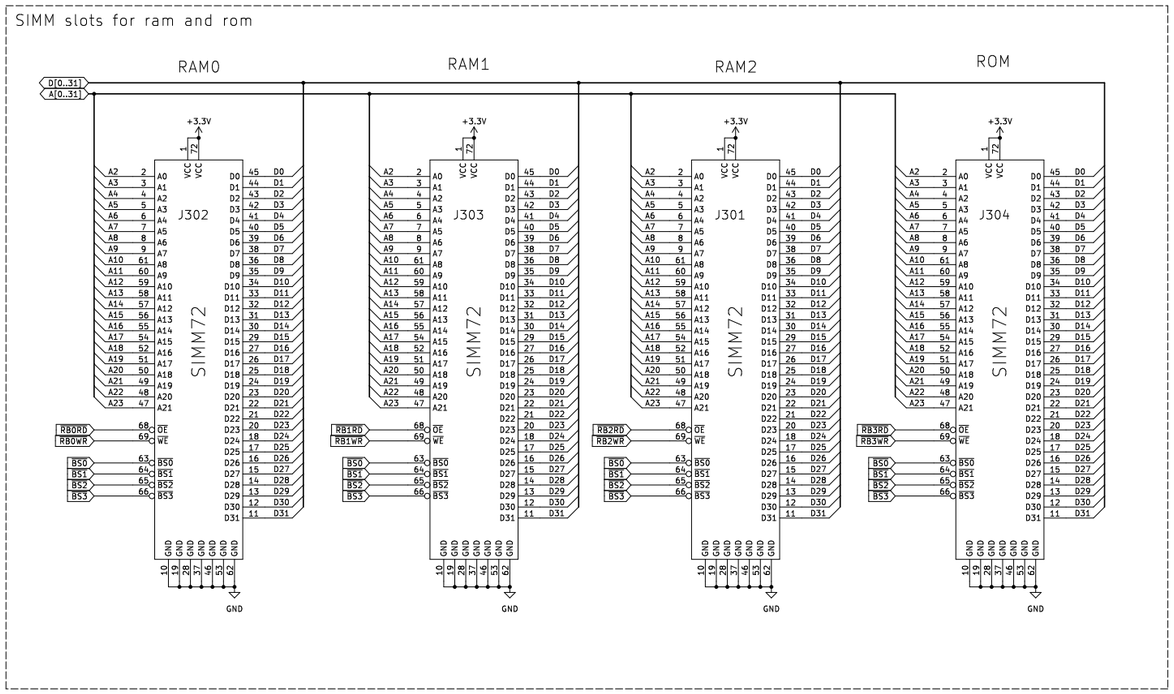
The ATF1508AS device has two sets of VCC pins viz. VCCINT and VCCIO.
VCCINT pins must always be connected to a 5.0V power supply.
VCCINT pins are for input buffers and are 'compatible' with both 3.3V and 5.0V inputs.
VCCIO pins are for I/O output drives and can be connected for 3.3/5.0V power supply.

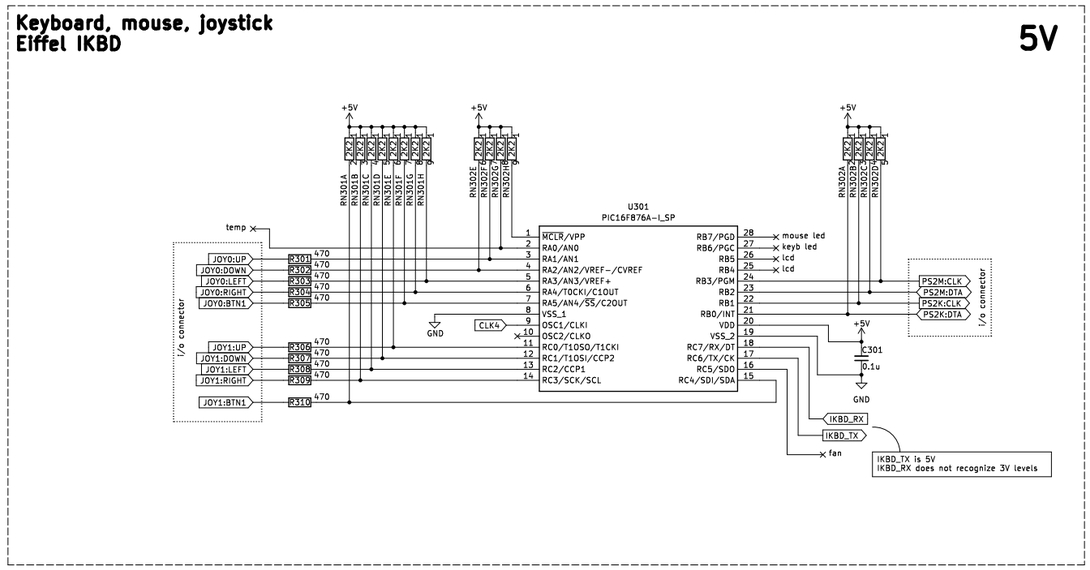


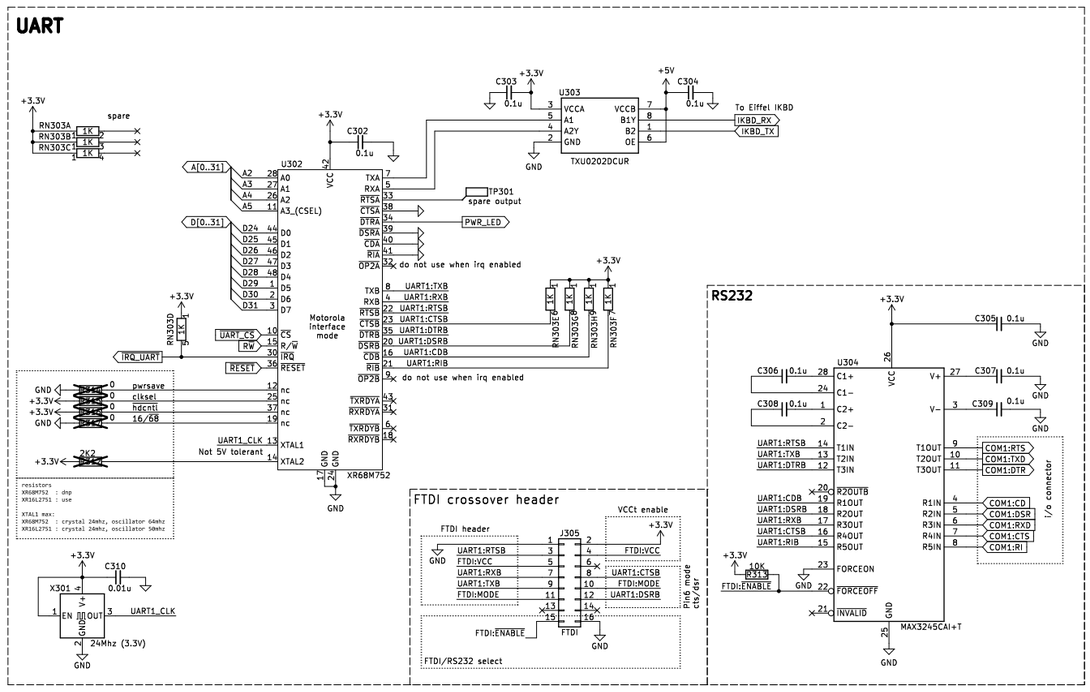



Power switch
+5VL
C201
0.1u
GND
IN has internal
63K pullup
U202
6
VCC
OUT
5
PWRSW+
1
IN
OUT
4
SW201
SW_Push
Pwr
GND
CLEAR
3
MAX16054AZT+T
2
GND
GND
Power connectors
#PS_ON is internally pulled
up by PSU to +5V standby
J201
ATX Power
16
PS_ON#
PWR_OK
8
+12V
10
+12V
+5V
4
+5V
+5VSB
9
+5VL
+3.3V
1
+3.3V
GND
−12V
14
−12V
3
GND
Optional −5V for really old ISA cards
−12V
U201
LM7905CT_NOPB
2
INPUT
OUTPUT
3
−5V
C202
0.1u
GND
GND
1
C203
0.1u
GND
GND
Backup 3.3V from 5V
+5V
D201
D202
D203
+3.3V
1A 50V
1A 50V
1A 50V
Reset circuit and switch
+3.3V
U203
DS1818
2
VCC
RST
1
GND
3
C204
0.1u
GND
Optional resistor, Maxim datasheet:
A 1 kΩ external pull-up resistor may be required in
some applications for proper operation of the
microprocessor reset control circuit.
1K
R203
RSTSW+
SW_Push
SW202
Reset
GND
RSTI
Frontpanel connectors
+5V
C205
0.1u
GND
14
U204D
74HCT10
VCC
GND
7
GND
+3.3V
+5V
10K
R204
10K
R205
+5V
Active low
open collector
external pullup
10K
R206
R207
R208
HDD0_LED
HDD1_LED
HDD2_LED
5V
3
4
5
U204B
6
9
10
11
U204C
8
RSTI
3V
PWR_LED
1
2
13
U204A
12
PWRLED−
1
2
3
J203
Pinhdr_01x03
HDDLED−
+5V
470
R201
PWRLED+
+5V
470
R202
HDDLED+
~6mA 2V
J202
Frontpanel
1
HDDLED+
3
HDDLED−
5
RSTSW+
7
GND
9
2
PWRLED+
4
PWRLED−
6
PWRSW+
8
GND
10

32bit local bus



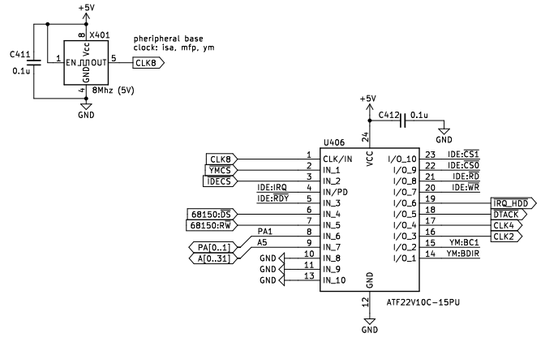




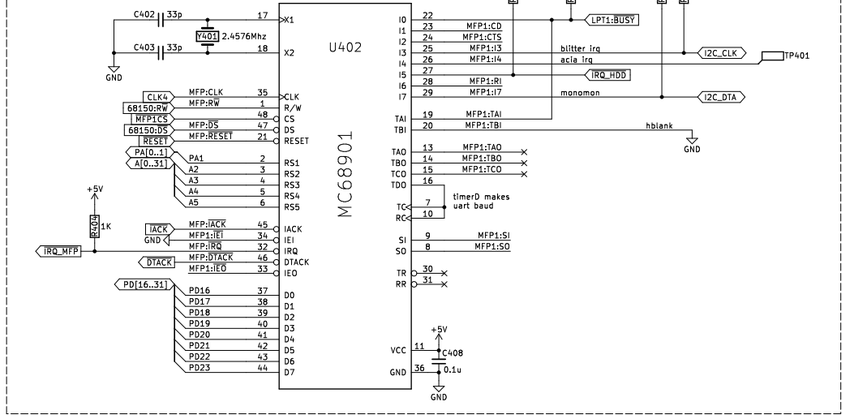
16bit through MC68150

5V

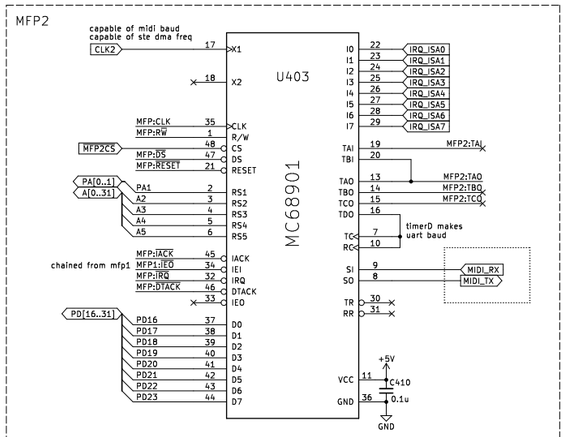
Clocks & Glue logic



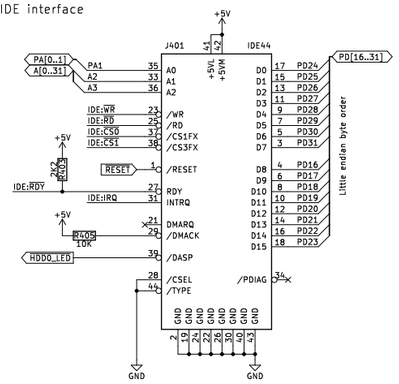
MFP1 – ST



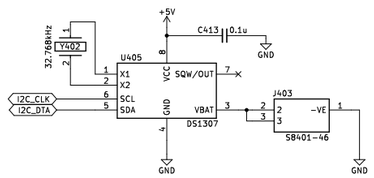
MFP2



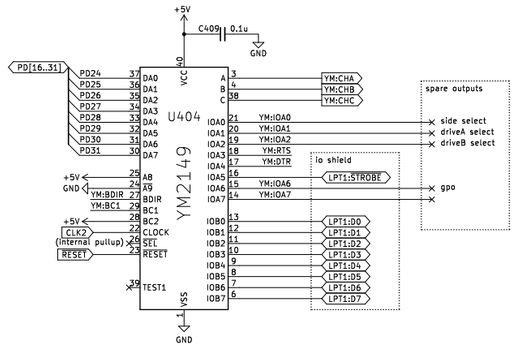
IDE interface



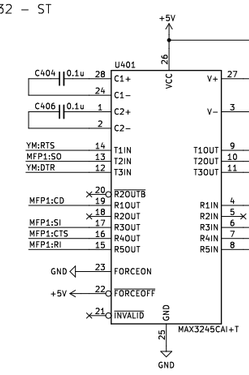
Realtime clock



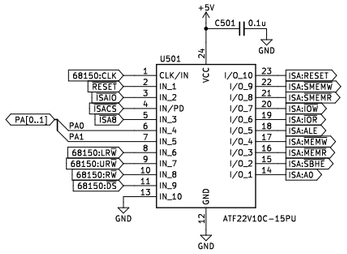
YM2149

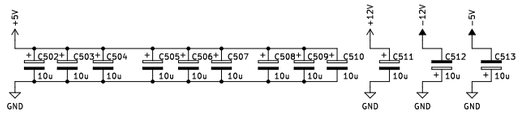


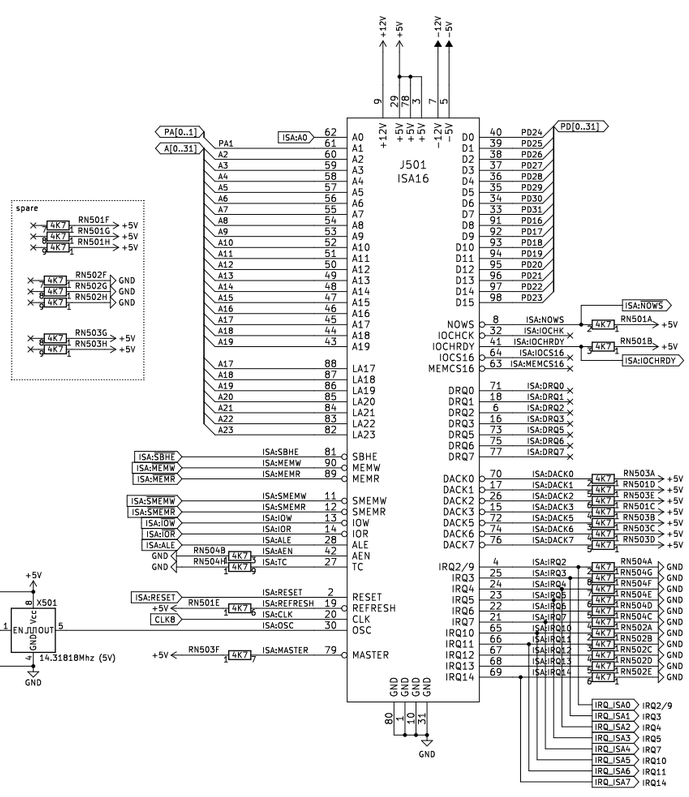
RS232 – ST

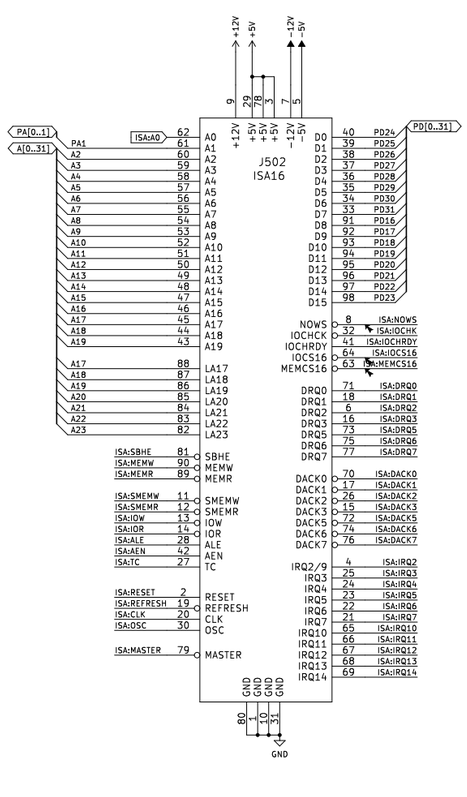


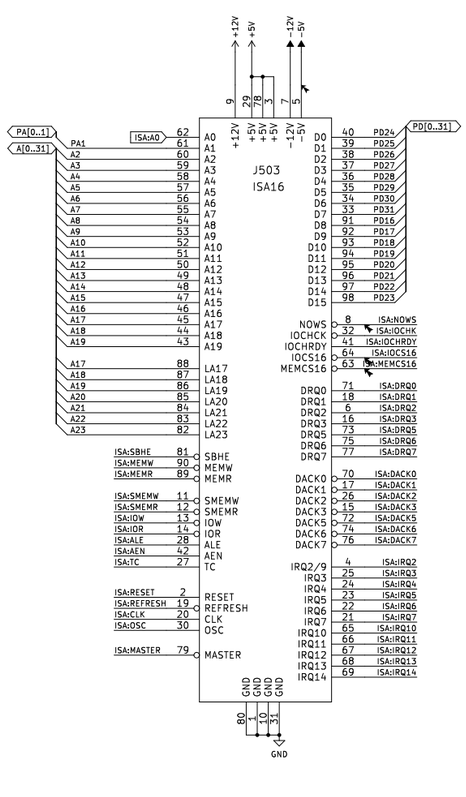
ISA Expansion slots

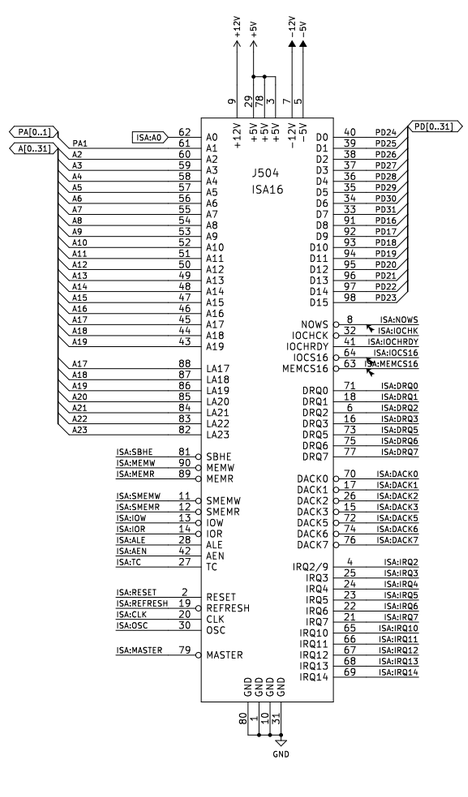






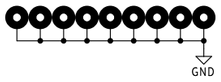




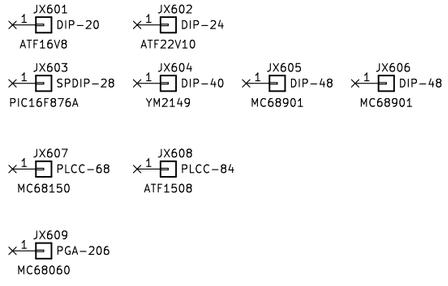


Misc / Connectors

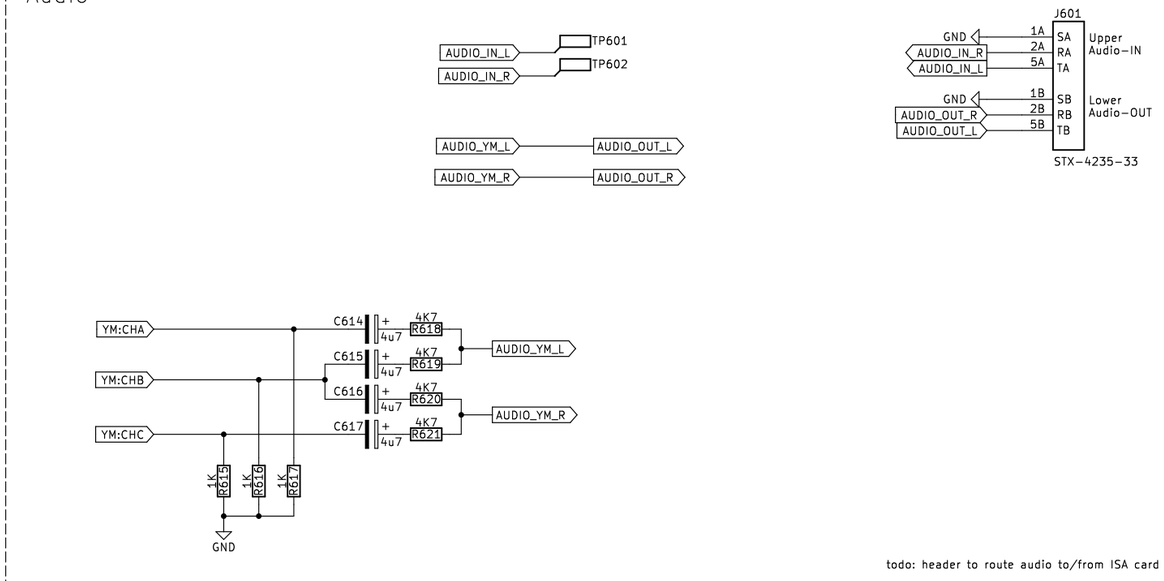
Mounting Holes



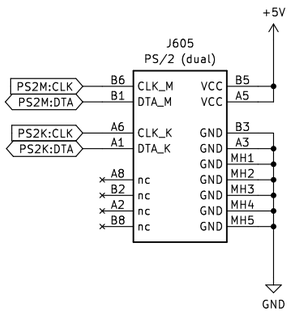
IC Sockets



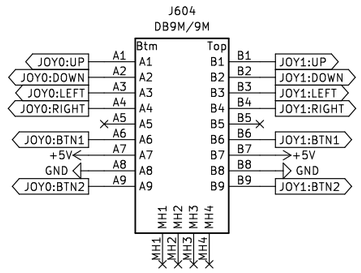
Audio



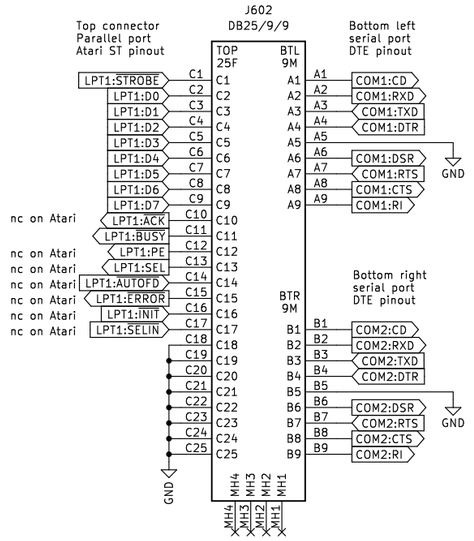
PS2 Keyboard + Mouse



Joystick x2



Parallel / Serial / Serial



Midi — TRS Type A