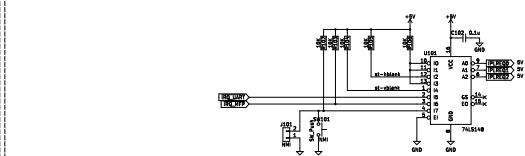


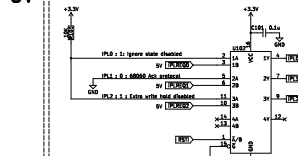
External sheets

Power
File: power1644sch
I2C02
File: i2c021644sch
I2C018
File: i2c0181644sch
SA
File: sa1644sch
MPC
File: mpc1644sch

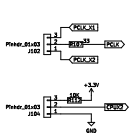
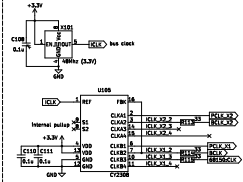
Device interrupt requests



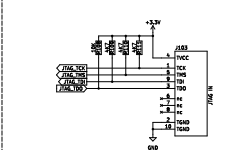
CPU interrupt trigger + startup config



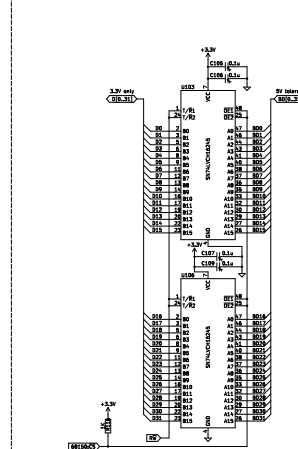
Clock



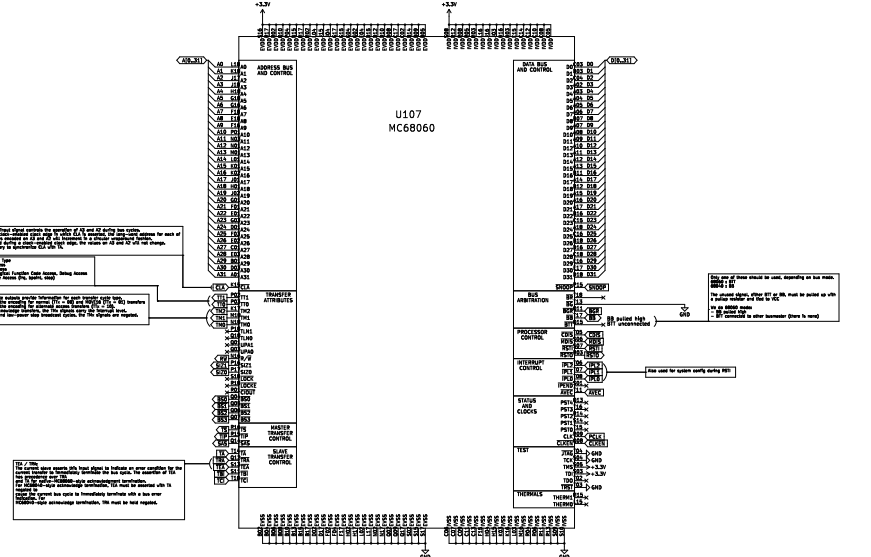
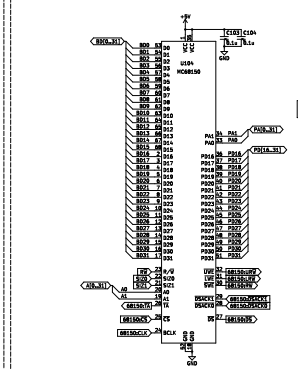
JTAG



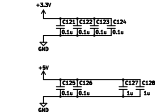
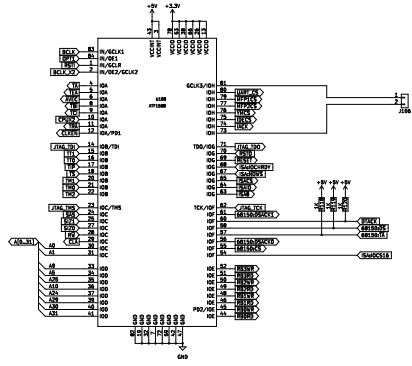
5V data bus



8/16 bit bus sizer



The 74VHC153 device has two sets of VCC pins (V_{CC1} and V_{CC2}).
V_{CC1} pins must always be connected to a 5V power supply.
V_{CC2} pins may be left unconnected or connected to a 5V or 3.3V power supply.
V_{CC2} pins are for V_{CC} output drivers and can be connected to a 3.3V power supply.



Power connectors

#PS_ON is internally pulled up by PSU to +5V standby

J201 ATX Power

16 PS_ON# 8 PWR_OK

+12V 10 → +12V

+5V 4 → +5V

+5VSB 9 → +5V

+3.3V 1 → +3.3V

-12V 14 → -12V

3 GND

GND

Optional -5V for older ISA cards

The diagram shows an LM7905CT_NOPB voltage regulator (U201) configured as a -5V regulator. The regulator's pin 1 (GND) is connected to a common ground. Pin 2 (INPUT) is connected to a -12V supply through a 0.1µF capacitor (C202). Pin 3 (OUTPUT) is connected to a -5V output through a 0.1µF capacitor (C203).

Backup 3.3V from 5V

The diagram shows a backup 3.3V supply circuit. A +5V supply is connected to the anodes of three diodes (D201, D202, D203) in series. The cathodes of the diodes are connected to a common ground. The output of the diodes is connected to a +3.3V output.

Reset circuit and switch

U203 DS1818

VCC 2

RST 1

GND 3

C205 0.1u

3.3V

1K R20

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.

RSTSW +

SW_Push

SW202

Reset

RSTI

GND

Frontpanel connectors

5V

C204 0.1u

GND

U204D

74HCT10

VCC

GND

Active low open collector external pullup

10K R206

10K R207

10K R208

5V

HDD0_LED

HDD1_LED

HDD2_LED

3V

RST

PWR_LED

10K R204

10K R203

U204B

U204C

U204A

12 PWRLED-

13

1

2

3

J203 Pinhdr_01x03

HDDLED-

5V

470 R201

470 R202

PWRLED+

HDDLED+

-6mA 2V

J202

1

2

3

4

5

6

7

8

9

10

HDDLED+

HDDLED-

RSTSW+

GND

The diagram shows a fan connector (5V) with a J204 connector. The connector has three pins labeled 1, 2, and 3. Pin 1 is connected to +5V, pin 2 is connected to GND, and pin 3 is connected to GND. A note indicates that the fan connector is 5V.

Fan connector (3.3V)

+3.3V

J205

1

2

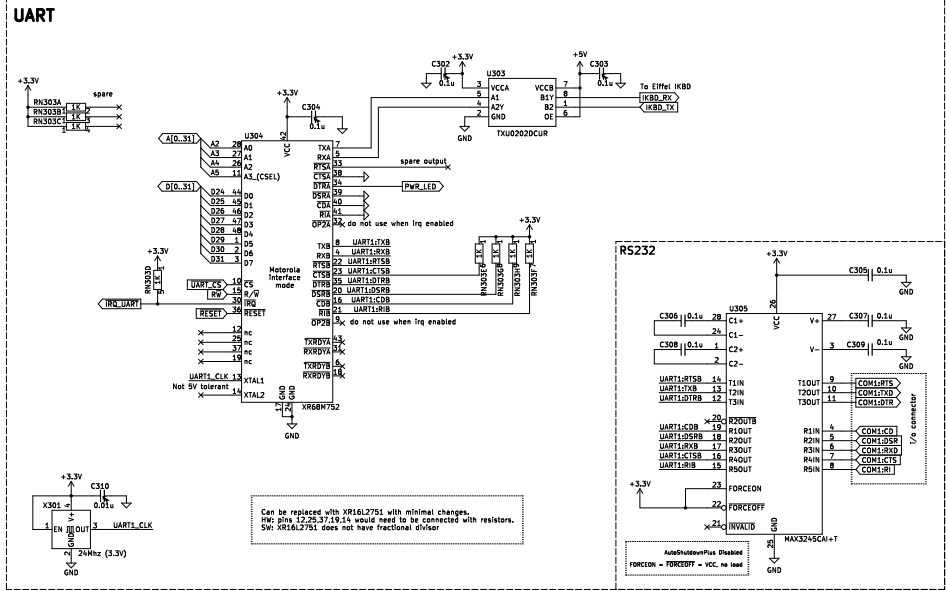
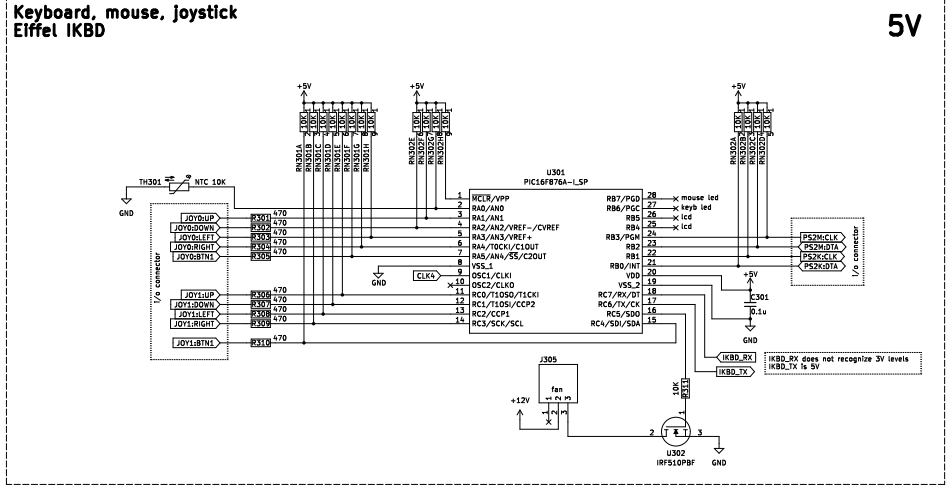
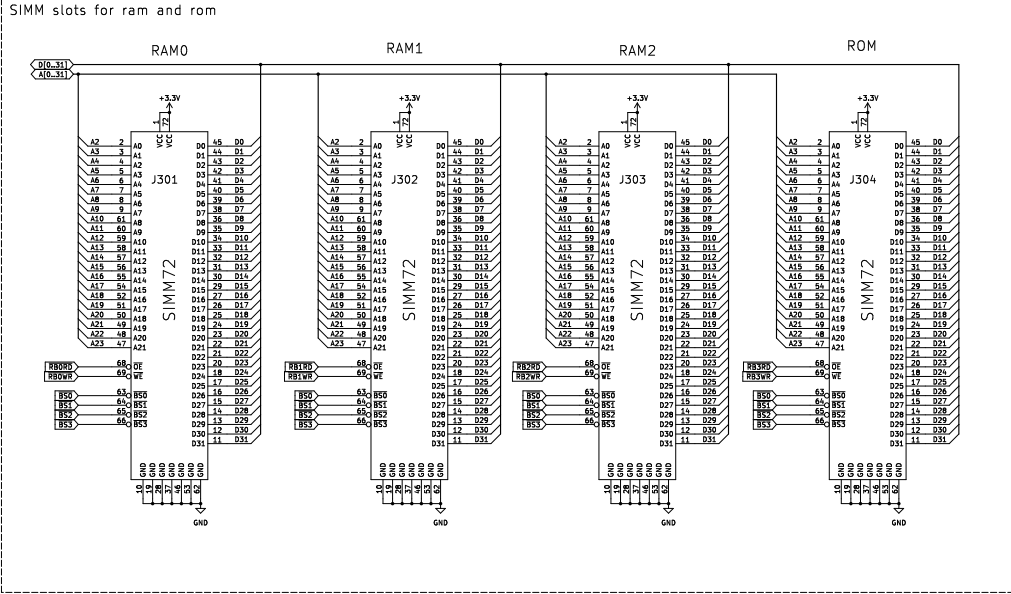
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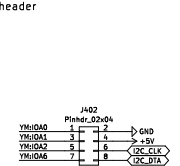
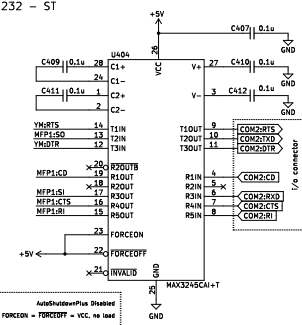
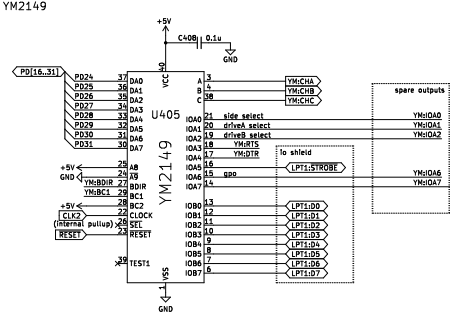
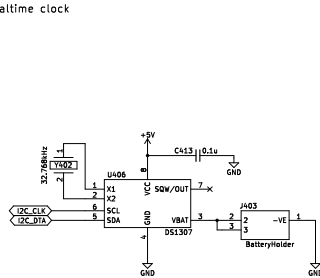
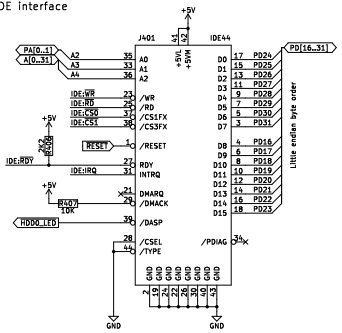
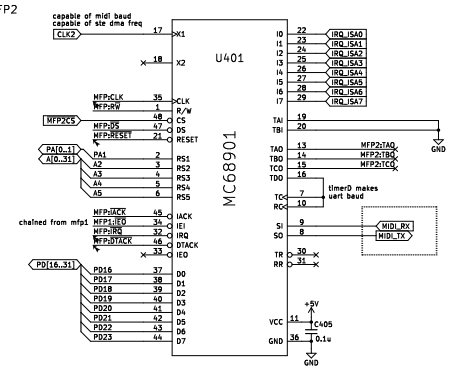
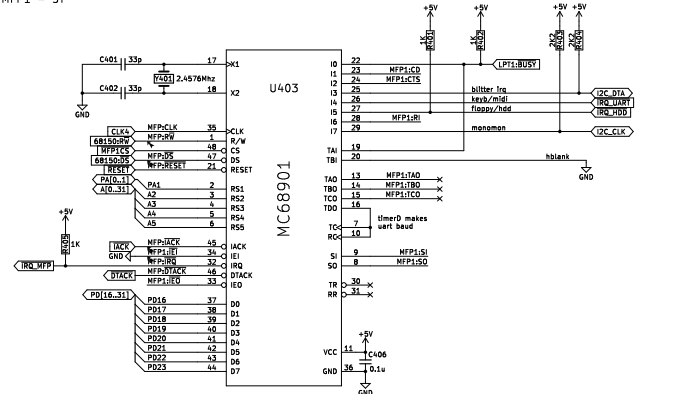
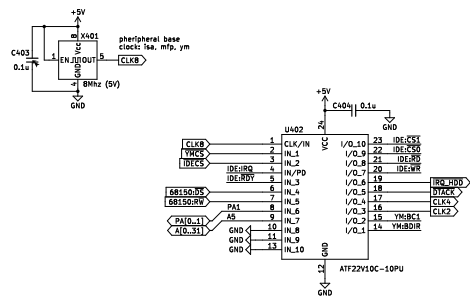
GND

Fan connector (12V)

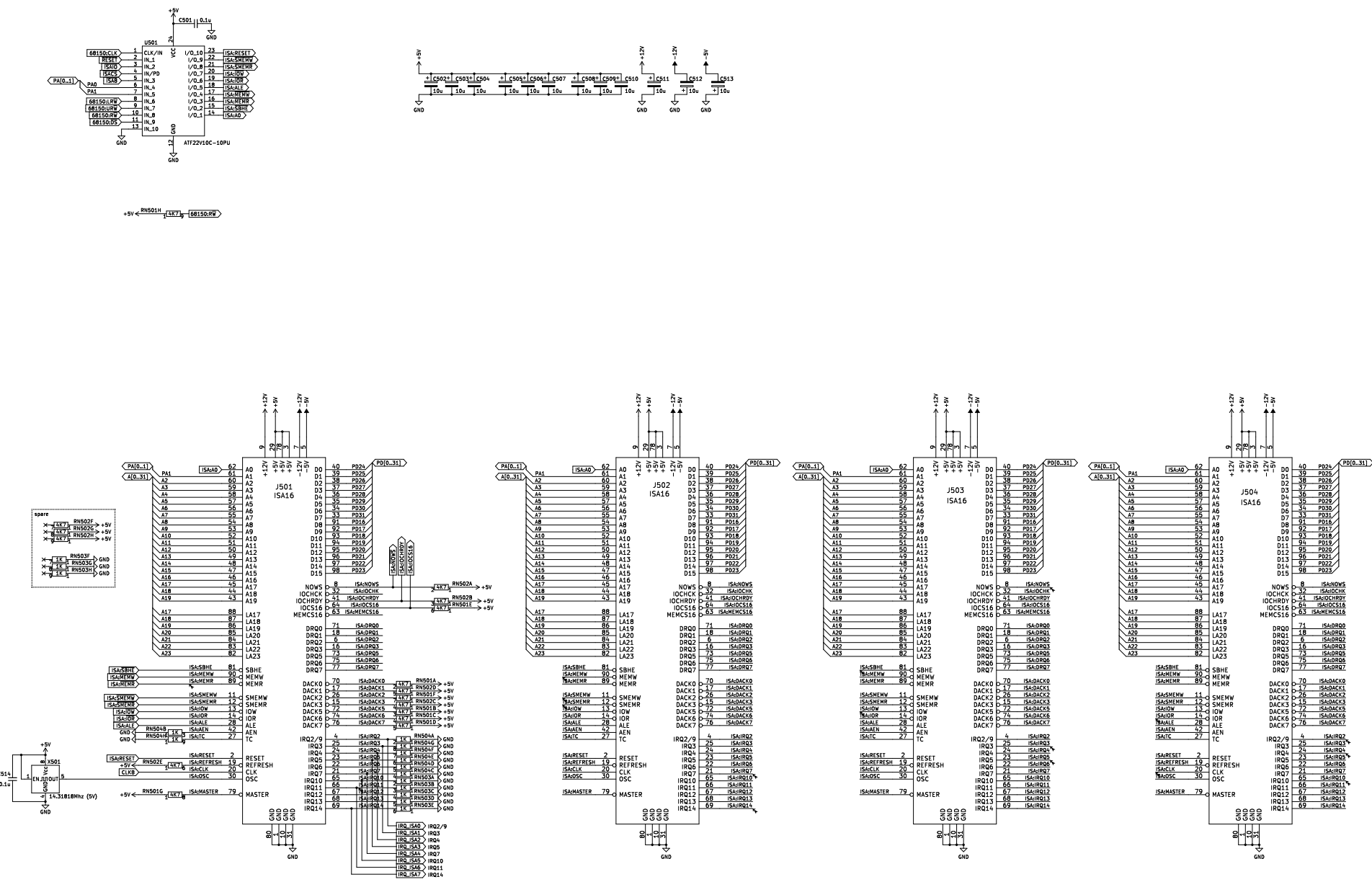
Diagram showing the wiring for the Fan connector (12V). The connector is labeled J206. Pin 1 is connected to +12V, Pin 2 is connected to GND, and Pin 3 is unconnected.

32bit local bus





ISA Expansion slots

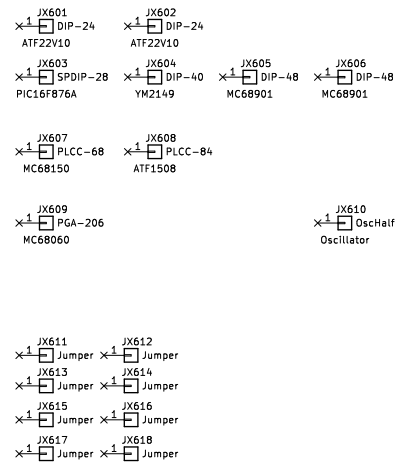


Misc / Connectors

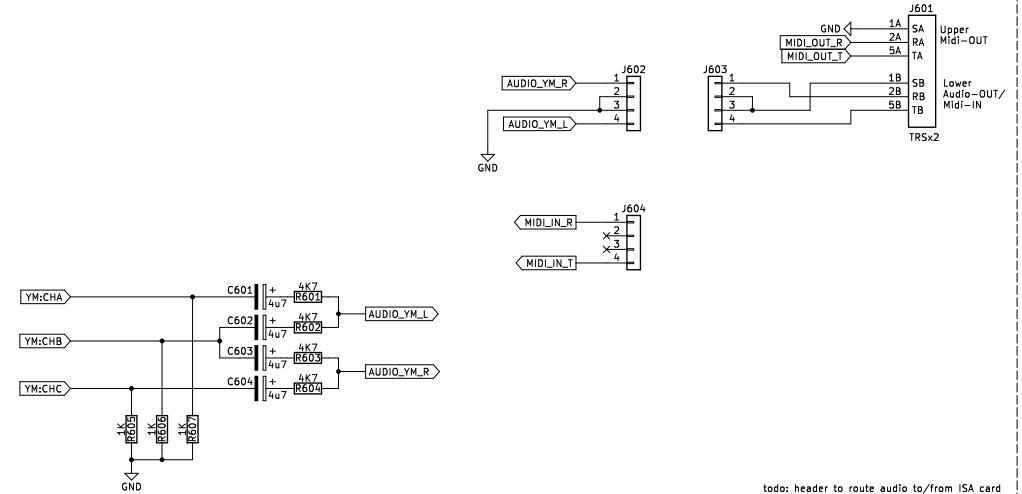
Mounting Holes



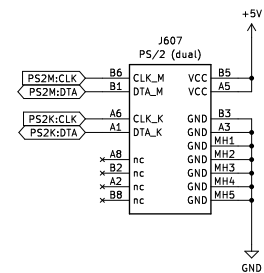
IC Sockets & Misc



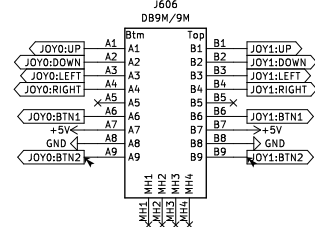
Audio



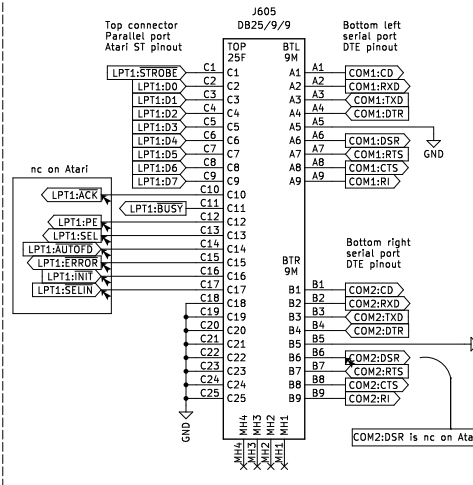
PS2 Keyboard + Mouse



Joystick x2



Parallel / Serial / Serial



Midi - TRS Type A

