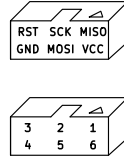
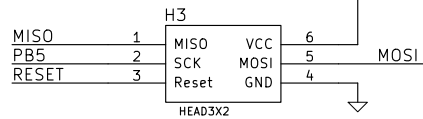
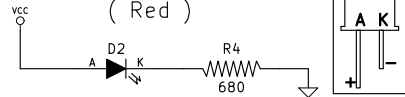


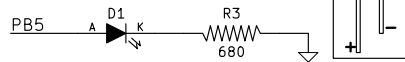
## In Circuit Serial Programming header ICSP



## Power on Led ( Red )



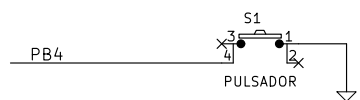
## Test led ( Green )



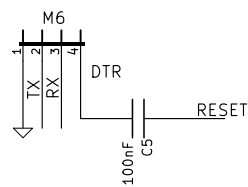
NOTE on the Test led:  
The resistor should be 680 ohms or higher  
This led is connected on the SCK (PB5).  
If R3 is less than 680 the ICSP connection  
will not work

## Test Button

In order for it to work,  
the PB4 internal pull-up  
resistor should be enable



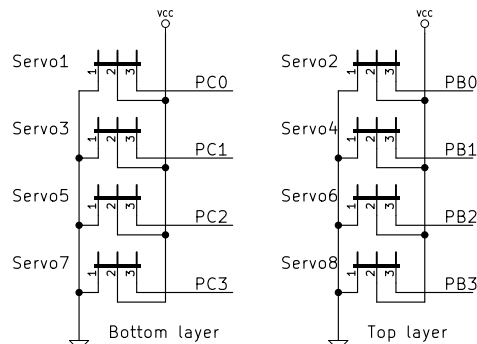
## Serial port (TTL)



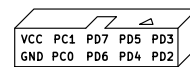
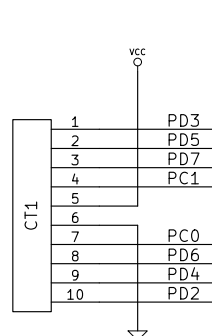
The connection to the PC is done  
by means of the USB-serial FTDI  
cable

Automatic reset is done  
by means of the DTR signal

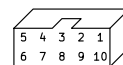
## Servo connectors



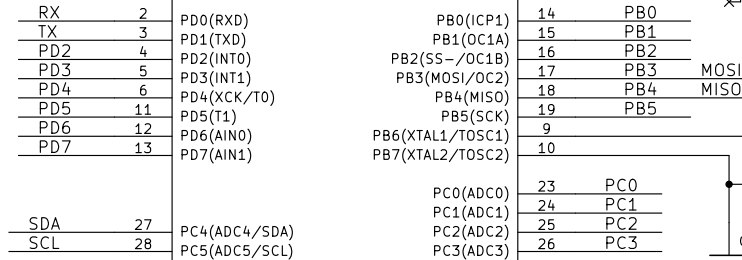
## Expansion port



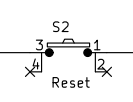
Header pin numbers



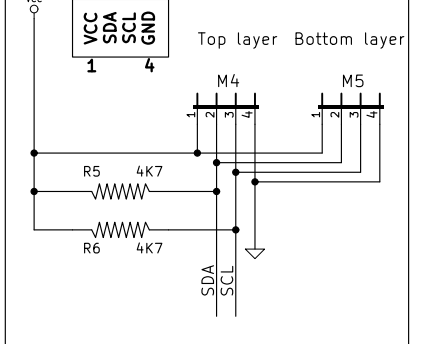
U1  
ATMEGA168



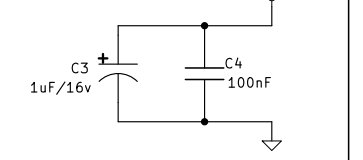
Reset Button



## I2C Bus

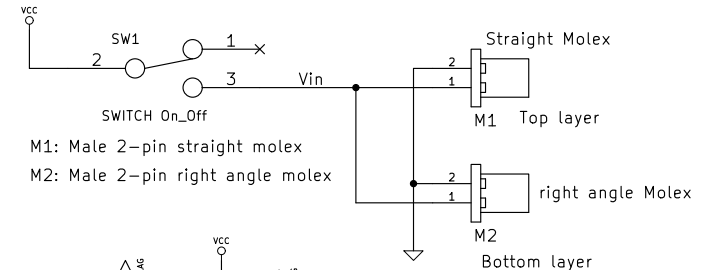


## Noise filtering



## Power supply (4,5 – 6v)

The power supply enters to the board either by M1 or M2 molex connectors  
It is connected to the vcc net by the on-off switch (SW1)



Open Source Hardware. Definition 1.0

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File: skymega.sch

Sheet: /

**Title: Skymega board**

Size: A4

**Date: 8 may 2011**

**Rev: 1.0**

KiCad E.D.A.

Id: 1/1

