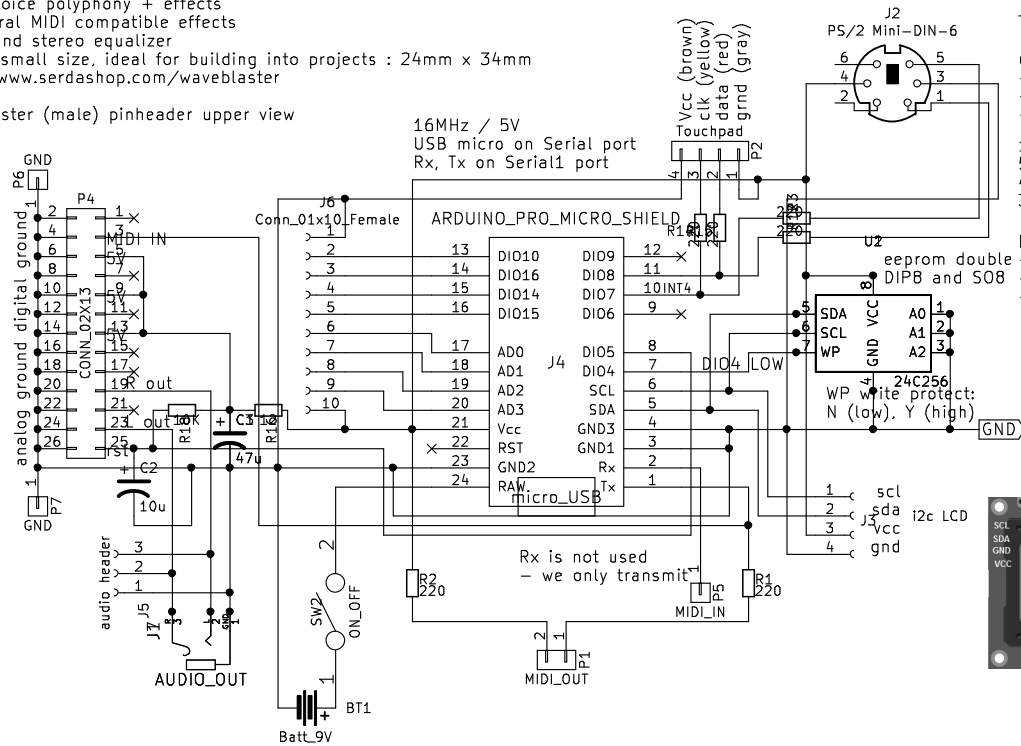


Small waveblaster module, based on the SAM2695 chip.  
 - 64-voice polyphony (without effects)  
 - 38-voice polyphony + effects  
 - General MIDI compatible effects  
 - 4-band stereo equalizer  
 - Very small size, ideal for building into projects : 24mm x 34mm  
<http://www.serdashop.com/waveblaster>

waveblaster (male) pinheader upper view



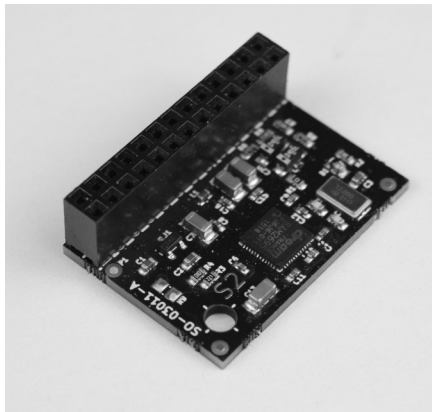
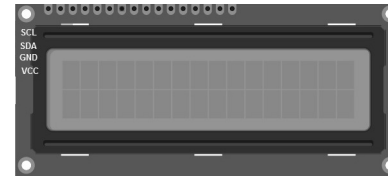
Touchpad:

usually we have a very tiny flat cable  
 - with ps/2 bus  
 - or ps/2 being part of it  
 - allow for different sizes

1: data/ red  
 5: clock/ yellow  
 4:+5V/ brown  
 3: ground/ gray

EEPROM remembers state of three variables at some longer intervals  
 - tone (melodic) sequence  
 - timestamp sequence  
 - volumes sequence

Microchip 24AA256/24LC256/24FC256 = PDIP/SOIC (1.8V to 5.5V)  
 24LC64 EEPROM on fixed address 1010  
 - #define disk1 0x50 //Address of 24LC256 eeprom chip  
 The last three bits of the address can be set to run up to 8 chips on the same I<sup>2</sup>C bus.  
 - 64Kbits / 8 = 8 KBytes  
 - 256 kbits / 8 = 32 Kbytes  
<http://www.hobbytronics.co.uk/arduino-external-eeprom>



Promicro PS/2 MIDI  
 touchpad + keyboard + mouse  
 ps/2 to midi synth -> audio  
 ps/2 to usb midi -> data

Sheet: /  
 File: ProMicroPiano.sch

**Title:**

Size: A4 Date:  
 KiCad E.D.A. kicad (5.1.5)-3

**Rev:**  
 Id: 1/1