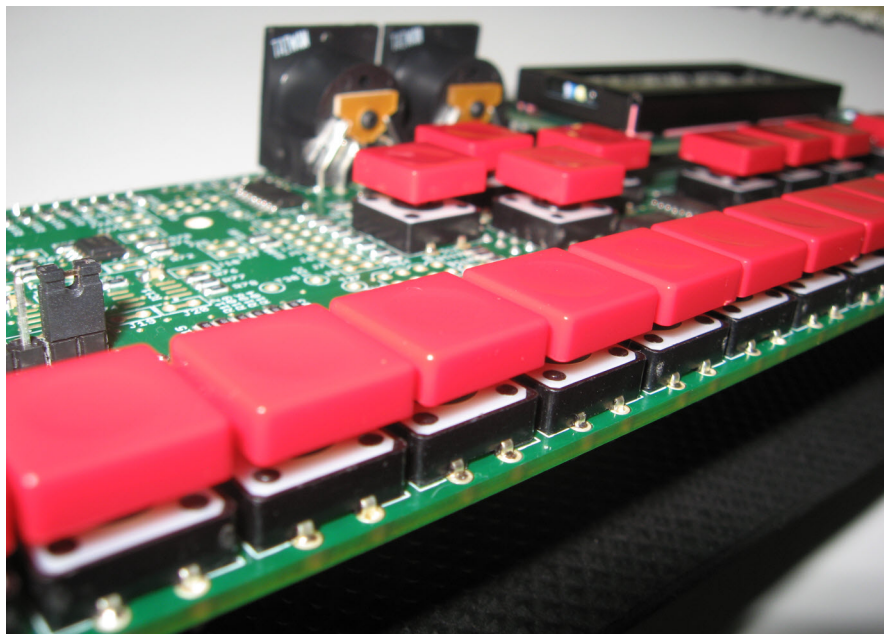
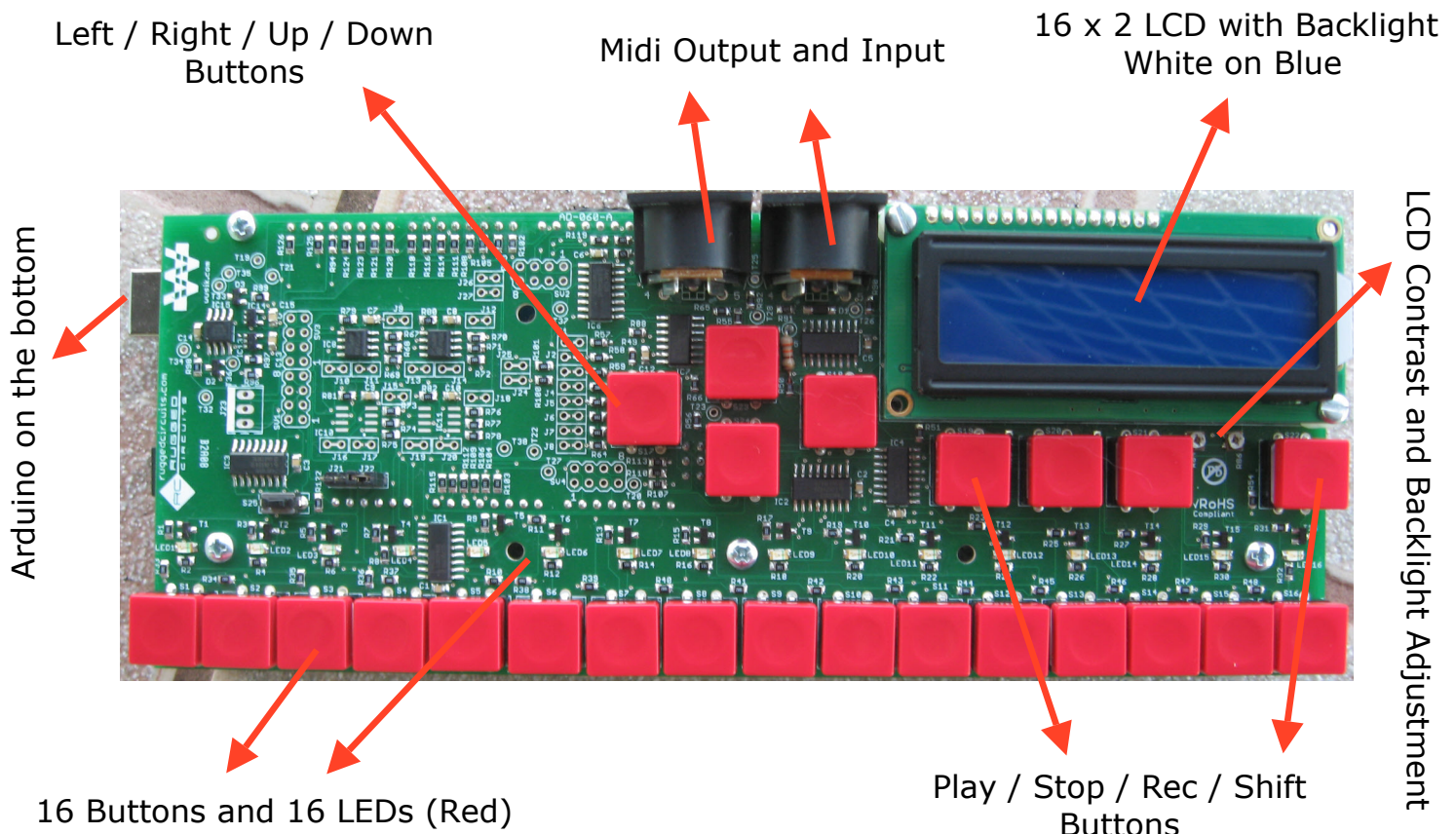




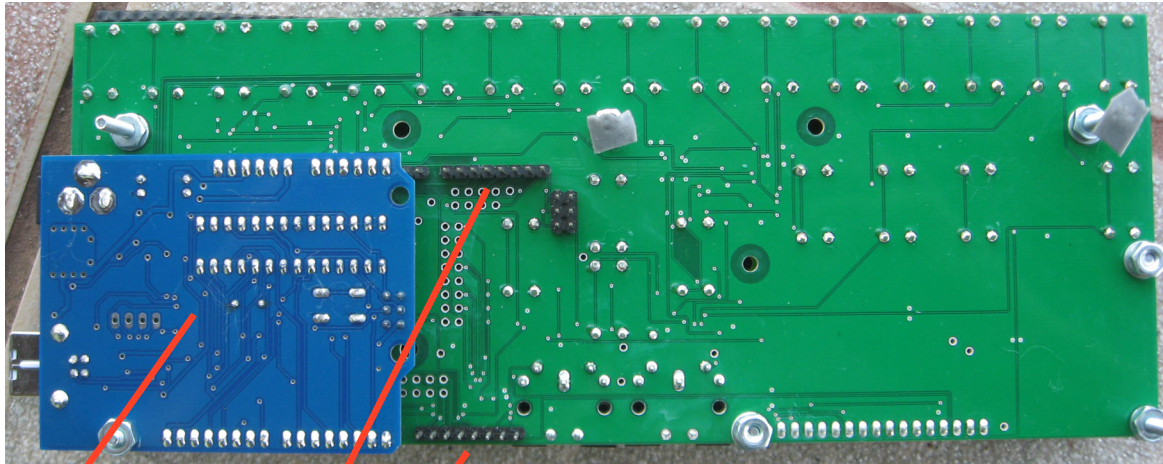
Board Details

Welcome to Beat707 Board Details

Here we will describe what are the features of the Beat707 Board. (the PCB with all components added to it) Below are the basic and most obvious options.



Closeup on the Buttons - you can change the caps



Arduino 2009
(not included)

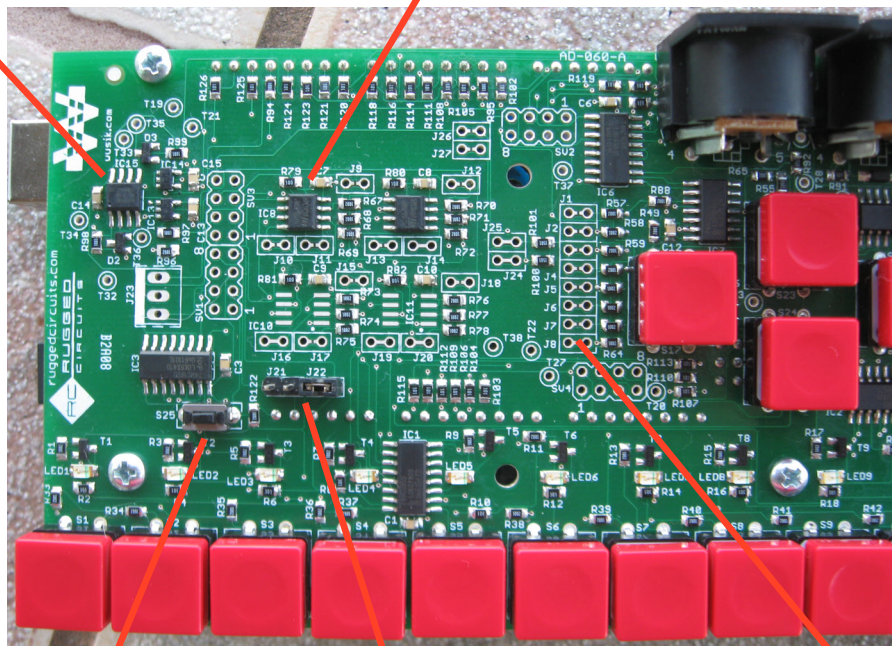
Beat707 Bottom

Arduino Mega
Connectors

EEPROM(s) (I2C-TWI-2Wire)
(32KBytes - 256Kbit)

The default is 1 chip
But there's room for 4

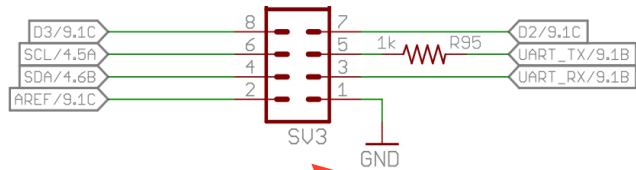
Nand Flash Memory (SPI)
(512KBytes - 4MBit)



Arduino Reset

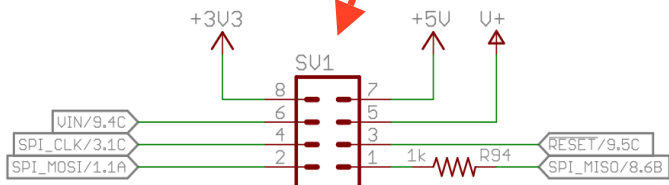
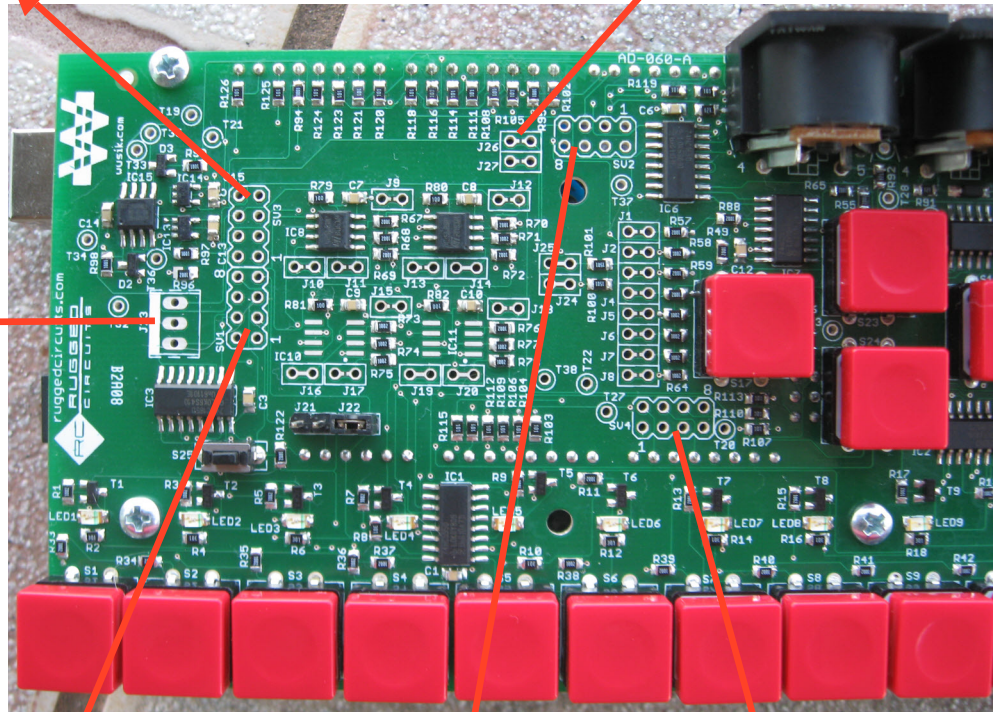
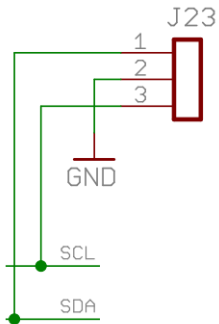
System Voltage
J22 for Arduino (5V)
! never set both jumpers !

8 Button Expansion
Includes Pull-Up Resistors

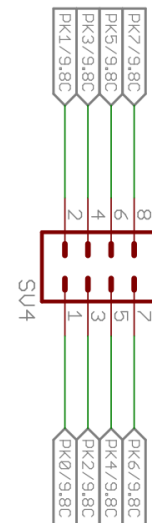
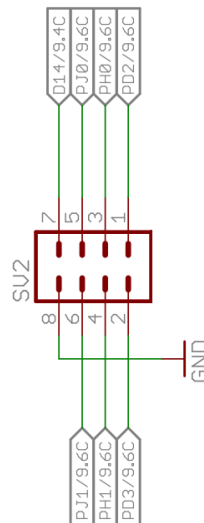


TWI for FEZ Panda (.NET)

External I2C (2Wire-TWI)



Arduino Mega Headers (besides D14)



Arduino Mega Headers

Arduino 2009 / Uno Free Pins

The following pins are not used by Beat707 Shield when using an Arduino 2009 / Uno (or any other ATmega328 based board)

- Analog A0 (D14 on the Beat707 headers)
- Digital 2 (D2 on the Beat707 Headers)
- Digital 3 (D3 on the Beat707 Headers - with PWM support)

Arduino 2009 / Uno - ATmega328 - Pin Description

- UART_RX = Digital 0 (Serial In)
- UART_TX = Digital 1 (Serial Out)
- D2 = Digital 2 (Free Pin)
- D3 = Digital 3 (Free Pin)
- LCD_D4 = Digital 4
- LCD_D5 = Digital 5
- LCD_D6 = Digital 6
- LCD_D7 = Digital 7
- LATCHOUT = Digital 8
- LCD_RS = Digital 9
- LCD_E = Digital 10
- SPI_MOSI = Digital 11 (Output)
- SPI_MISO = Digital 12 (Input)
- SPI_CLK = Digital 13 (LED too)
- SCL = Analog 5 (2Wire/TWI/I2C)
- SDA = Analog 4 (2Wire/TWI/I2C)
- MIDI_EN = Analog 3
- SWITCH_SS = Analog 2
- FLASH_SS = Analog 1
- D14 = Analog 0 (Free Pin)