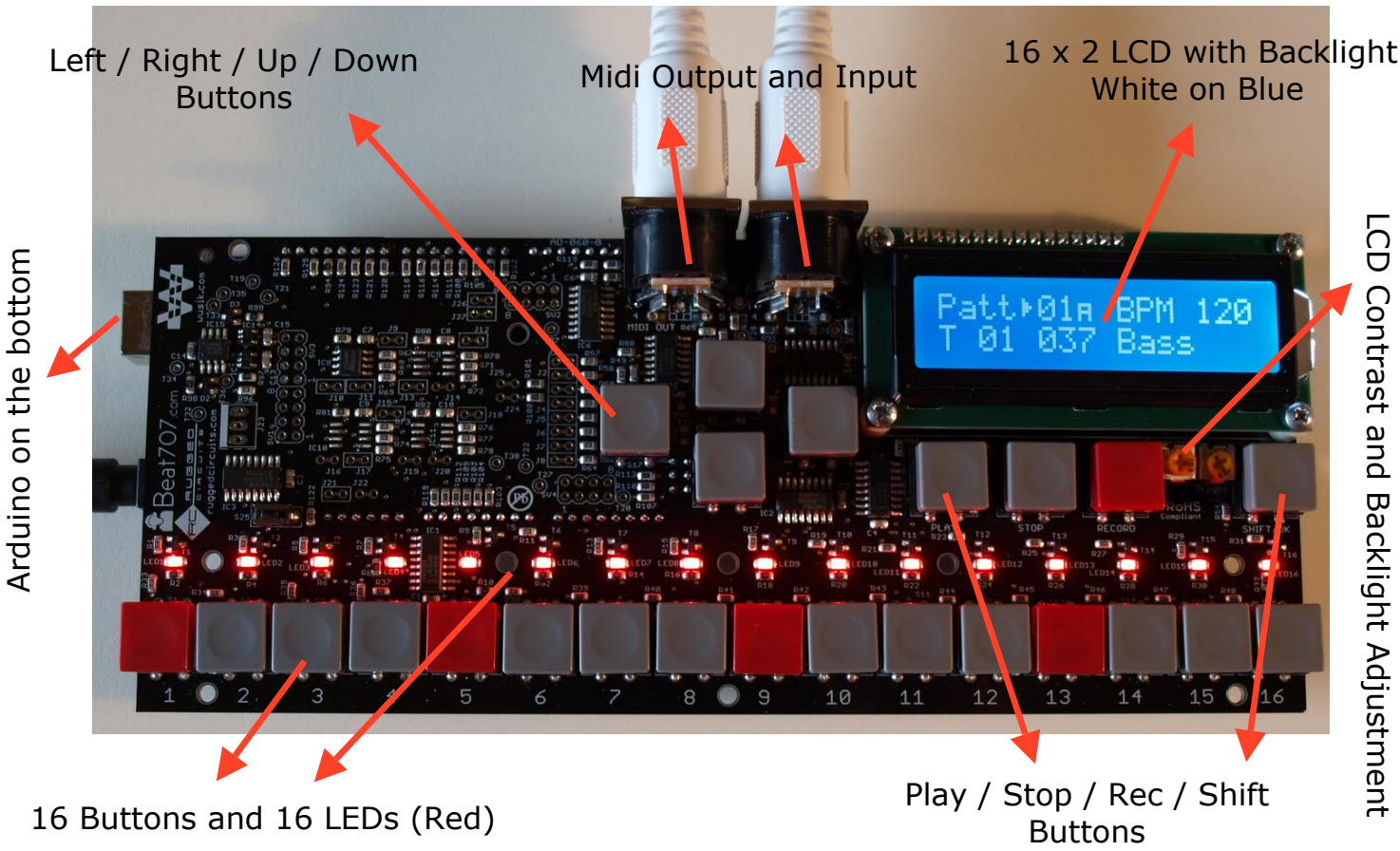
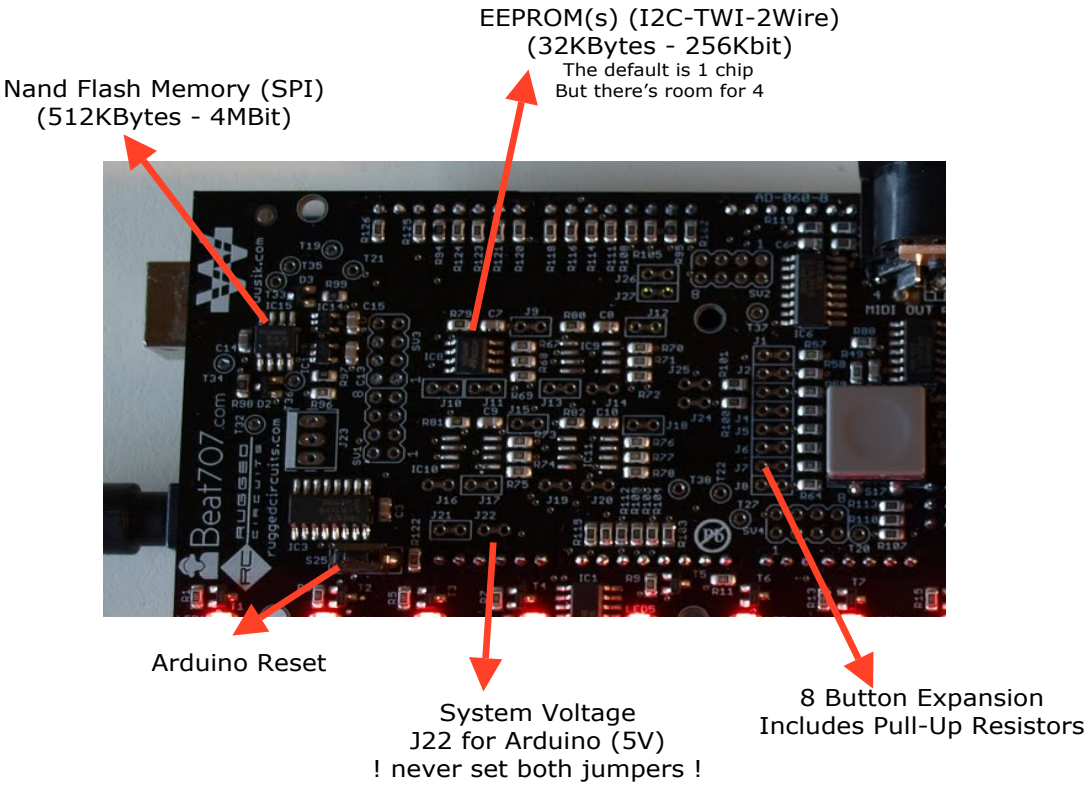
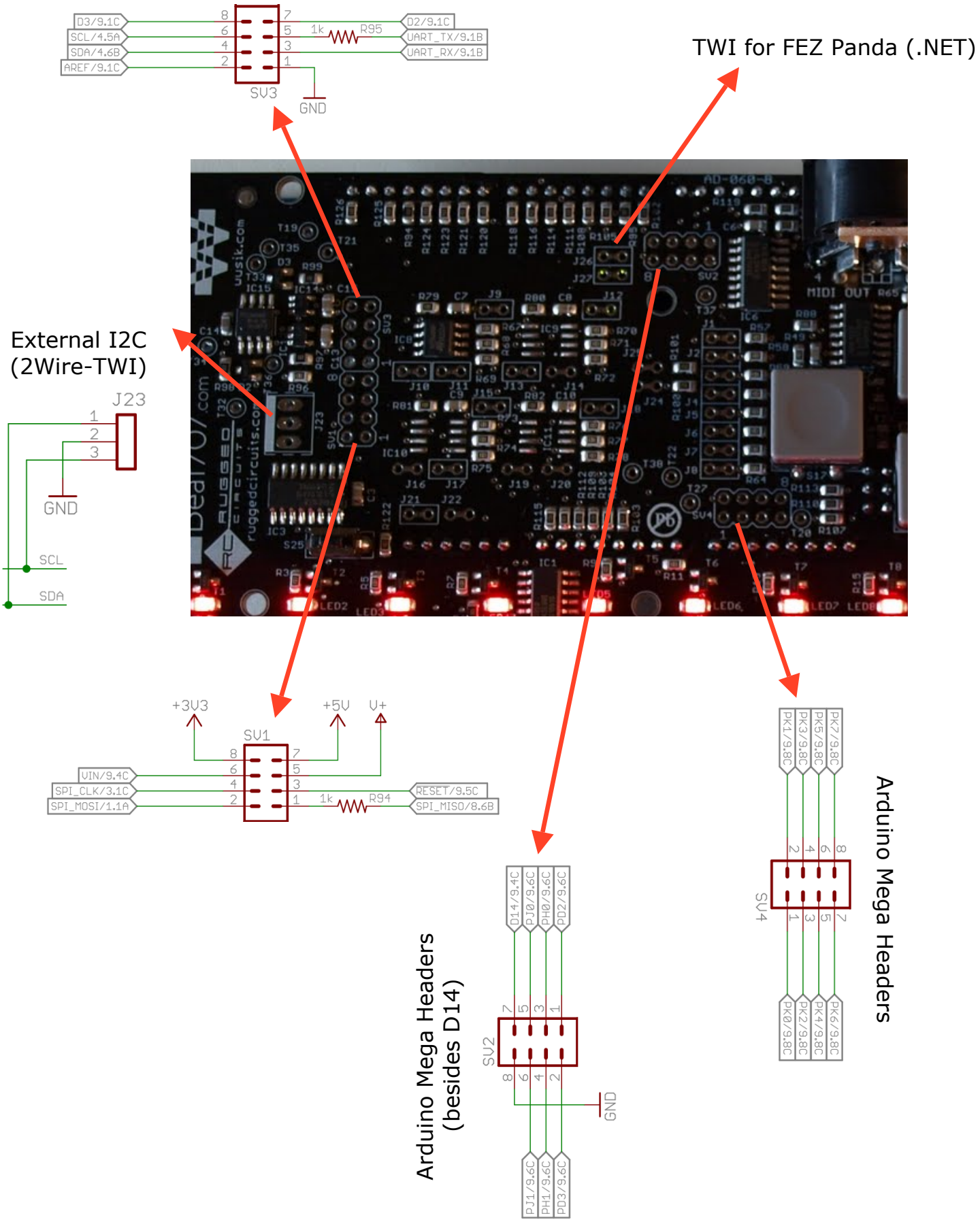
Board Details

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.






SV3
D3/9.1C
SCL/4.5A
SDA/4.6B
AREF/9.1C
1k
R95
D2/9.1C
UART_TX/9.1B
UART_RX/9.1B
GND
TWI for FEZ Panda (.NET)
External I2C
(2Wire-TWI)
J23
GND
SCL
SDA
+3V3
+5V
V+
SV1
VIN/9.4C
SPI_CLK/3.1C
SPI_MOSI/1.1A
1k
R94
RESET/9.5C
SPI_MISO/8.6B
Arduino Mega Headers
(besides D14)
SV2
D14/9.4C
PJ0/9.6C
PH0/9.6C
PD2/9.6C
GND
PJ1/9.6C
PH1/9.6C
PD3/9.6C
Arduino Mega Headers
SV4
PK1/9.8C
PK3/9.8C
PK5/9.8C
PK7/9.8C
PK0/9.8C
PK2/9.8C
PK4/9.8C
PK6/9.8C

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)

Arduino Mega Pin Description

- PK0 = Analog 8 (Free Pin)
- PK1 = Analog 9 (Free Pin)
- PK2 = Analog 10 (Free Pin)
- PK3 = Analog 11 (Free Pin)
- PK4 = Analog 12 (Free Pin)
- PK5 = Analog 13 (Free Pin)
- PK6 = Analog 14 (Free Pin)
- PK7 = Analog 15 (Free Pin)
- PJ1 = TX3 - Pin 14 (Free Pin)
- PJ0 = RX3 - Pin 15 (Free Pin)
- PH1 = TX2 - Pin 16 (Free Pin)
- PH0 = RX2 - Pin 17 (Free Pin)
- PD3 = TX1 - Pin 18 (Free Pin)
- PD2 = RX1 - Pin 19 (Free Pin)
- PD1 = SDA - Pin 20
- PD0 = SCL - Pin 21