Software:
Do not probe low
voltage during charging.

U$2
>VAUE

PA8 and PI0 are swapped in the Discovery board documentation!!!

(N/C)
IOREF
RESET
3.3V
5V
GND
GND
VIN

A0-PA0/ADC123_IN0/TIM2_CH1/TIM2_ETR/TIM5_CH1/TIM8_ETR/USART2_CTS/UART4_TX/SAI2_SD_B
A1-PF10/ADC3_IN8

A2-PF9/ADC3_IN7/SPI5_MOSI/SAI1_FS_B/UART7_CTS/TIM14_CH1/QUADSPI_BK1_IO1
A3-PF8/ADC3_IN6/SPI5_MISO/SAI1_SCK_B/UART7_RTS/TIM13_CH1/QUADSPI_BK1_IO0
A4-PF7/ADC3_IN5/TIM11_CH1/SPI5_SCK/SAI1_MCLK_B/UART7_TX/QUADSPI_BK1_IO2
A5-PF6/ADC3_IN4/TIM10_CH1/SPI5_NSS/SAI1_SD_B/UART7_RX/QUADSPI_BK1_IO3

Intern 2k7 to 3.3V (R54)
15-PB8/TIM4_CH3/TIM10_CH1/I2C1_SCL/CAN1_RX SCL
Intern 2k7 to 3.3V (R46)
14-PB9/TIM4_CH4/TIM11_CH1/I2C1_SDA/SPI2_NSS/I2S2_WS/CAN1_TX SDA
AREF AREF is 3.3V if not connected
AVDD
GND GND
13 SRAM_SCK
12 SRAM_MISO
11 SRAM_MOSI
10 SRAM_CS
PA8
JTDI !!!
9-PA15/JTDI/TIM2_CH1/TIM2_ETR/HDMI-CEC/SPI1_NSS/I2S1_WS/SPI3_NSS/I2S3_WS/UART4_RTS 9
8-PI2/TIM8_CH4/SPI2_MISO 8 BRD Type - Without Battery
7-PI3/TIM8_ETR/SPI2_MOSI/I2S2_SD 7
6-PH6/I2C2_SMBA/SPI5_SCK/TIM12_CH1 6
PI0
5-PA8/MCO1/TIM1_CH1/TIM8_BKIN2/I2C3_SCL/USART1_CK 5
4-PG7/USART6_CK 4
NJTRST !!!
3-PB4/NJTRST/TIM3_CH1/SPI1_MISO/SPI3_MISO/SPI2_NSS/I2S2_WS 3
2-PG6 2
1-PC6/TIM3_CH1/TIM8_CH1/I2S2_MCK/USART6_TX 1
0-PC7/TIM3_CH2/TIM8_CH2/I2S3_MCK/USART6_RX 0 Tim8 - quadratur

D1 1N4148DO35-7
K1 DS2E-L-5V
Q1 BC849SMD
2k2 R5
GND

+5V
+3V3
GND

SL1 Stereo_Detect
R27 10k
R4 10k
Short for Stereo output

IC1 23LCV1024 (SRAM)
EEPROM Array
WP CS SI SCK HOLD VCC SO GND
VBAT
G1 B2430UNI

IC5P 74HC14D
R9 10k
R11 10k
R22 10k
R23 10k
R24 10k
R25 10k
KY-040_Encoder SL7
EncA
EncB
Btn
Supply
GND

IC5D IC5A IC5E IC5B IC5F 74HC14D

C10 C11 C9 10n

R1 2k2
Dig_LEDs
SL8 SL9 SL10 SL11

C13 C12 100n

C2 RAD FC 2.200/10

Pin 3 from power selector to use Mini USB Cable
SB9 auf STM32F7 Discovery brücken
+5V_Supply SL2
K1

PWR SL4
S1
K1 DS2E-S
D2 1N4148DO35-7

R2 1k8
R3 3k3
C3 10n
IC5C 74HC14D

mp3_wo_battery	
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