Microcontroller

U1
STC8H8K64U-45I-TSSOP20

+5V

Pin	Left	Right	Pin
P14	1 P1.4/SDA/MISO/PWM3P/ADC4	ADC0/RXD2/PWM1P/P1.0 20	P10
P15	2 P1.5/SCL/SCLK/PWM3N/ADC5	ADC1/TXD2/PWM1N/P1.1 19	P11
P16	3 P1.6/XTALO/MCLKO_2/RXD_3/PWM4P/ADC6	INT3/TXD_2/CMP+/P3.7 18	P37
P17	4 P1.7/XTAL1/PWM5_2/TXD_3/PWM4N/ADC7	INT2/RXD_2/CMP-/P3.6 17	P36
P13	5 P1.3/T2CLKO/MOSI/PWM2N/ADC3	T1/T0CLKO/SS_4/PWMFLT/PWMFLT2/P3.5 16	P35
CAP	6 UCAP	T0/T1CLKO/MOSI_4/PWM4P_4/PWM8_2/CMPO/P3.4 15	P34
P54	7 P5.4/T2/ADC2/PWM6_2/PWM2P/SS_3/SS/MCLKO/NRST/PWM6_2	INT1/MISO_4/I2CSDA_4/PWM4N_4/PWM7_2/P3.3 14	P33
	8 VCC/AVCC	INT0/SCLK_4/I2CSCL_4/PWMETI/PWMETI2/P3.2 13	P32
	9 ADC_VREF+	TXD/D+/P3.1 12	P31
	10 GND/AGND	RXD/D-/INT4/P3.0 11	P30

GND

Caps

+5V   +5V

C1   C2
100n   10n

GND   GND

+5V   CAP

C4   C3
10u   100n

GND   GND

MicroUSB Port

+5V

USB1
Micro Input

Pin		
VCC	1	
D-	2	R3 22R → P30
D+	3	
ID	4	R4 22R → P31
GND	5	
EH	6	

GND

BOOT Key

+5V

R5
10k

P32

R6
300R

SW1
BOOT

GND

LEDs

+5V   +5V

LED1   LED2
PWR   P34

R1   R2
1k   1k

GND   P34

Breakout Header

+5V

H1 H2

P14	1	10	P10
P15	2	9	P11
P16	3	8	P37
P17	4	7	P36
P13	5	6	P35
P54	6	5	P34
	7	4	P33
	8	3	P32
	9	2	P31
	10	1	P30

GND

TITLE: STC8H8K64U Development Board

REV: 1.1

Company: wagiminator

Sheet: 1/1

Date: 2023-12-05   Drawn By: Stefan Wagner

EasyEDA