U1PORTA_H

PA8	41
PA9	42
PA10	43
PA11	44
PA12	45
PA13	46
PA14	49
PA15	50

R7 12k

+5V

USB5_USB_MICRO_MOLEX475890001
K1

5V	
D-	shield
D+	shield
ID	shield
GND	shield

R3 22R
R4 22R

R9 1M C19 1n/200V
GND GND

+3V3
K2

VDD	
SWDIO	
SWCLK	
SWO	
GND	
RST	

SWD
GND

PC7	38
PC6	37
PC5	25
PC4	24
PC3	11
PC2	10
PC1	9
PC0	8

U1PORTC_L

S1 SWITCH-MOMENTARY-2SMD
GND
S2 SWITCH-MOMENTARY-2SMD
GND

U$1
54 PD2
6 PD1/OSC=>
5 PD0/OSC<=
U1PORTD/OSC
GND

U1RESET
NRST 7
BOOT0 60
STM32F205RET6

100n C15
GND GND

+3V3
U1POWER
32	VDD_1
48	VDD_2
64	VDD_3
19	VDD_4

U1AN_POWER +3V3
VBAT	1
VDDA	13
VSSA	12
GND

C8 2u2 31 VSS_1
C6 2u2 47 VSS_2
       63 VSS_3
       18 VSS_4
GND

MCP1703T-3302E/CB
+5V   +3V3
3 VI VO 2
    GND
1u C2   1u C1
IC1
GND

C9 100n C7 100n C12 100n C13 100n C14 100n C10 4u7
+3V3
GND

U1PORTB_L
PB7 PB6 PB5 PB4 PB3 PB2 PB1 PB0
59 58 57 56 55 28 27 26

DISPLAY
30	NC(GND)
29	VLSS
28	VCC
27	VCOMH
26	IREF
25	D7
24	D6
23	D5
22	D4
21	D3
20	D2/I2C_SDA
19	D1/SPI_SDIN/I2C_SDA
18	D0/SPI_SCLK/I2C_SCK
17	E/RD
16	R/W
15	DC/I2C_SA0
14	/RES
13	/CS
12	BS2
11	BS1
10	BS0
9	VDD
8	VSS
7	NC
6	VBAT
5	C1N
4	C1P
3	C2N
2	C2P
1	NC(GND)

for I2C Connect

C5 2u2
R10 390k

PA7 23
PA6 22
PA5 21
PA4 20
PA3 17
PA2 16
PA1 15
PA0 14
U1PORTA_L

GND +3V3

C16 100n C3 1u
1u C4
1u C18
GND

	I2C	SPI3	SPI4
BS2	0	0	0
BS1	1	0	0
BS0	0	1	0

VDD: 2.8-3.3V
Controller: SSD1306

128x64 OLED
U3

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