BLE module STM32WB5MMG

U1B

4	VREF+	VSS_1	31
6	VDDA	VSS_2	57
15	VBAT	VSS_3	60
16	VSSMPS	VSS_4	84
17	VDDMPS	VSS_5	86
32	VDD_USB	VSS_9	5

3V
GND

STM32WB5MMGH6TR

U1A
STM32WB5MMGH6TR

PD0 PD1 PD2 PD3 PD4 PD5 PD6 PD7 PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15
SEG31 SEG39 GND GND SEG32 SEG33
PH0 PH1
GND GND

SEG0 — PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
COM0 — PA8
COM1 — PA9
COM2 — PA10
PA11
PA12 — PA12
SDWIO — PA13
SWCLK — PA14
SEG17 — PA15

ANT_NC — 85
ANT_IN — 58
RF_OUT — 59

PC0 12 — SHT_SCL
PC1 9 — SHT_SDA
PC2 8 — SEG20
PC3 7 — VLCD
PC4 49 — SEG22
PC5 45
PC6 36 — SEG24
PC7 71 — SEG25
PC8 33
PC9 69 — SEG27
PC10 22 — Switch
PC11 23 — SEG29
PC12 24 — SEG30
PC13 40

PH3-BOOT0 13 — BOOT0
NRST 10 — NRST

3V 3V
R1 10k R2 10k

C13 1u 10V/X7R
GND

TP1
SW1 PTS815

C1 100n 10V/X7R
R3 10k
GND GND GND

PB0 PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8 PB9 PB10 PB11 PB12 PB13 PB14 PB15
PE0 PE1 PE2 PE3 PE4
GND SEG7 SEG8 SEG9 UART_TX UART_RX COM3 PB11 SEG12 SEG13 SEG14 SEG15
GND

LCD with capacitors for display standoff

The naming of the display nets (SEGX) is derived from the MCU datasheet

LCD1

SEG0 13	SEG10	COM3	12 COM3
SEG24 8	SEG7	COM0	11 COM0
SEG9 15	SEG12		
SEG8 16	SEG13	SEG4	5 SEG33
SEG7 17	SEG14	SEG5	6 SEG27
SEG29 18	SEG15	SEG11	14 SEG20
SEG30 19	SEG16	SEG6	7 SEG31
SEG17 20	SEG17	SEG8	9 SEG13
SEG32 21	SEG18	SEG9	10 SEG25
SEG39 22	SEG19	SEG3	4 SEG15
		SEG2	3 SEG14
COM2 23	COM2	SEG1	2 SEG12
COM1 24	COM1	SEG0	1 SEG22

LCD_1209061_A2

For display standoff, no electrical function

C9 C10 C11 C12

height = 1.25mm ±0.2mm   e.g. CC0805KKX7R7BB105

Power Supply Battery

3V
T1 DMP2123L-7

C3 22u 6V3/X5R	C4 22u 6V3/X5R	C5 22u 6V3/X5R	C6 22u 6V3/X5R	C7 22u 6V3/X5R	C8 22u 6V3/X5R

Bat1 3V
GND

Debug/ Monitor HW-Access

3V
ST1

SWCLK 3	4 SHT_SCL
SDWIO 5	6 PB11
BOOT0 7	8 PA12
UART_RX 9	10 NRST
UART_TX 11	12

TSM-106-01-L-DV-P-TR
GND

Sensirion RH/T Sensor

3V
Sen1

3	VDD	SCL	2	SHT_SCL
		SDA	1	SHT_SDA
4	VSS			

C2 100n 10V/X7R
GND

SHT43-ADCB