

SES Clicker PCB

MCU Pinout

Pin	Type	Protocol	Function
A0	I	-	DW1000 TXE signal
A0	O	-	DW1000 SPI polarity setting (setup phase)
A1	I	-	DW1000 RXE signal
A1	O	-	DW1000 SPI phase setting (setup phase)
A2	IO	SWD	SWDIO
A3	IO	SWD	SWCLK
A4	O	-	DW1000 NRST
A5	O	-	DW1000 WKUP
A6	O	-	DW1000 Force on
A8	IO	UART	RX docked timestamp update
A9	O	-	Status LED
A10	I	BOOT	BOOT0
A12	O	SPI	SPI NSS
A13	O	SPI	SPI CLK
A14	I	SPI	SPI MISO
A15	O	SPI	SPI MOSI
B0	I	-	Clicker (IRQ)
B1	I	-	UWB (IRQ)
B2	I	-	Battery (IRQ)
B3	I	ADC	Battery (voltage)
B4	I	-	UWB sync
B8 - B11	O	-	Battery status (4-bit)

PCB Pinout

SW1

Pin	Net
1	Clicker
2	GND

SW2

Pin	Net
1	Battery_IRQ
2	GND

J1

Pin	Net
1	VIN
2	RX
3	SWDIO
4	SWCLK
5	GND

J2

Pin	Net
1	BAT+
2	GND

PCB Dimensions

Zero Point: TOP-LEFT (outside rounded corner)

Edge cuts

Dimension	Measurement (mm)
Width	30
Height	85.5
Corner Radius	0.75

Mounting

Dimension	Measurement (mm)
Width	22
Height	60

LEDs

LED	x (mm)	y (mm)
PWR	2	31.15
Status	2	32.7
Battery_status[3]	2	34.25
Battery_status[2]	2	35.8
Battery_status[1]	2	37.35
Battery_status[0]	2	38.9
UWB RX_OK	28.725	61.825
UWB SFD	27.175	61.825
UWB RX	25.625	61.825
UWB TX	24.075	61.825
Battery charger PG	19.4375	26.225
Battery charger STAT 1	20.9875	26.225
Battery charger STAT 2	22.5375	26.225