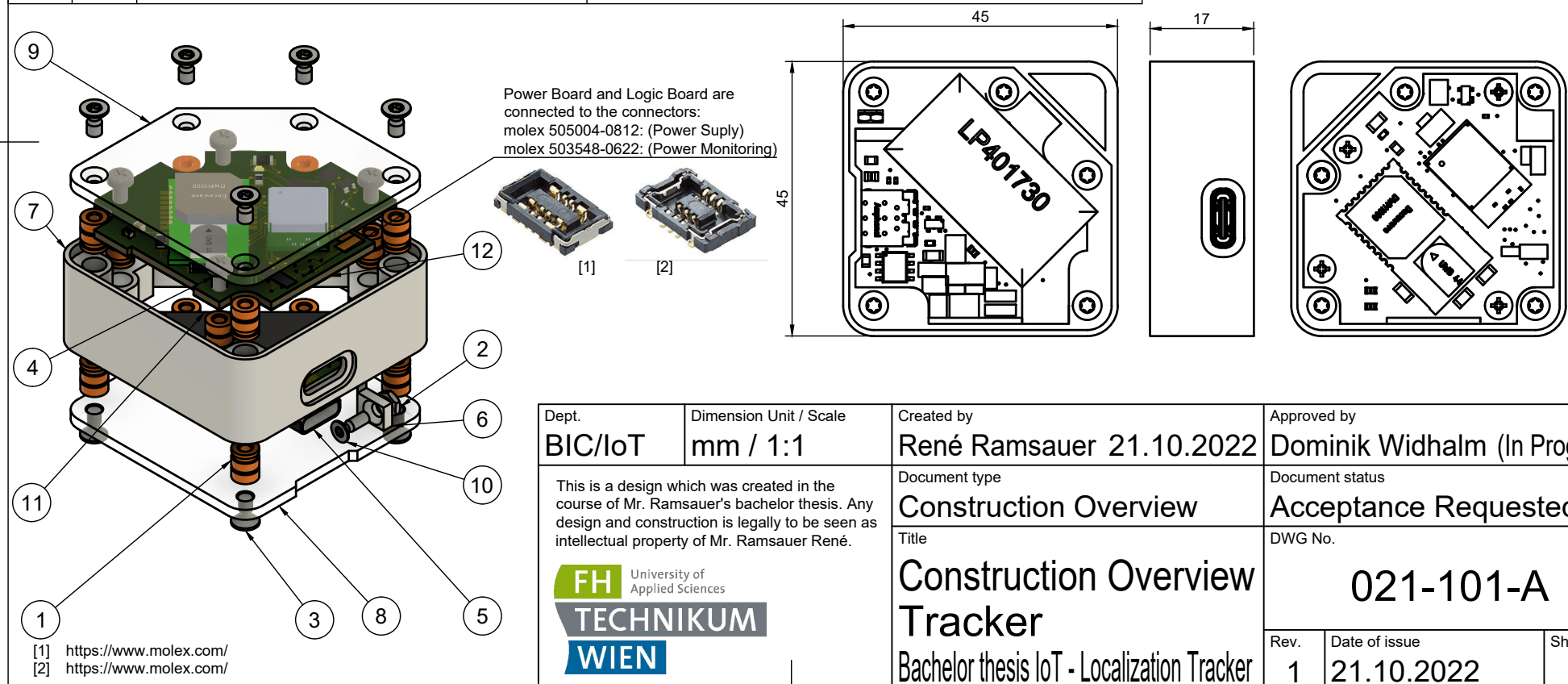
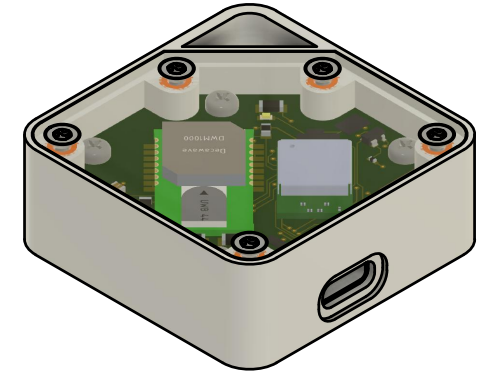

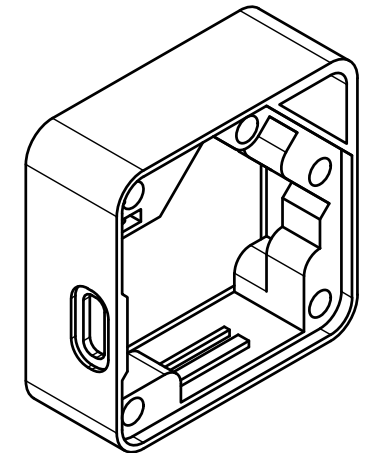
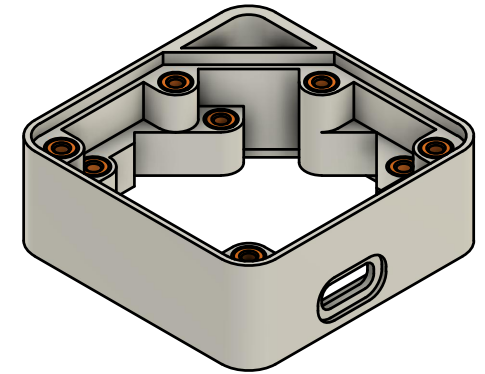
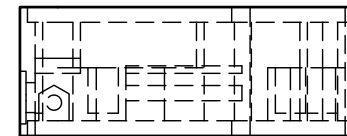
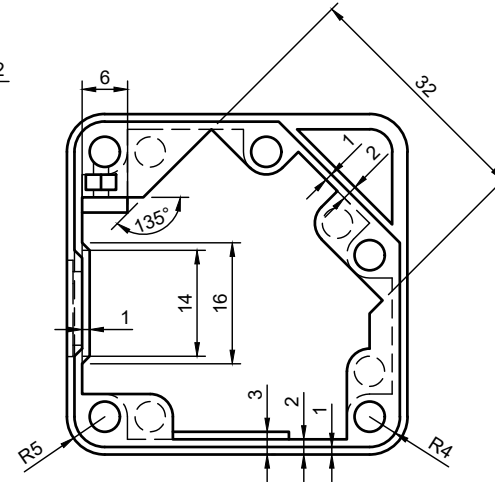
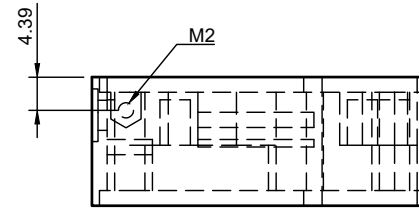
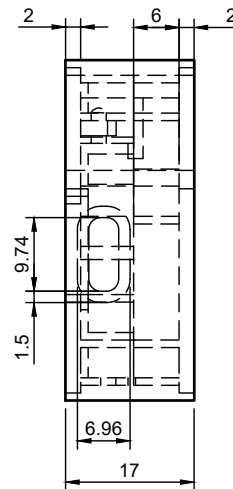
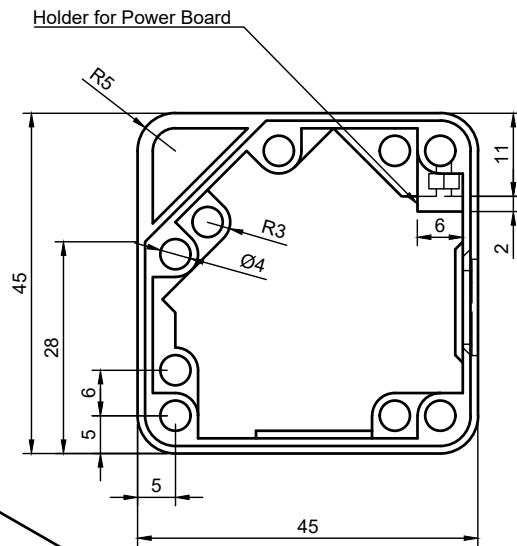
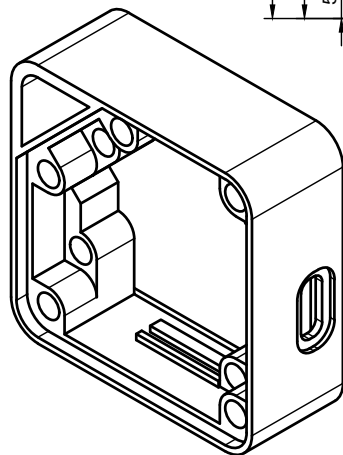



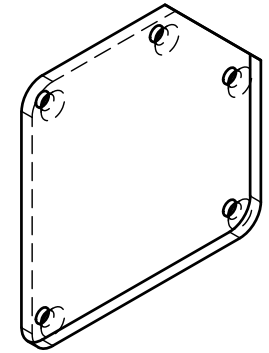
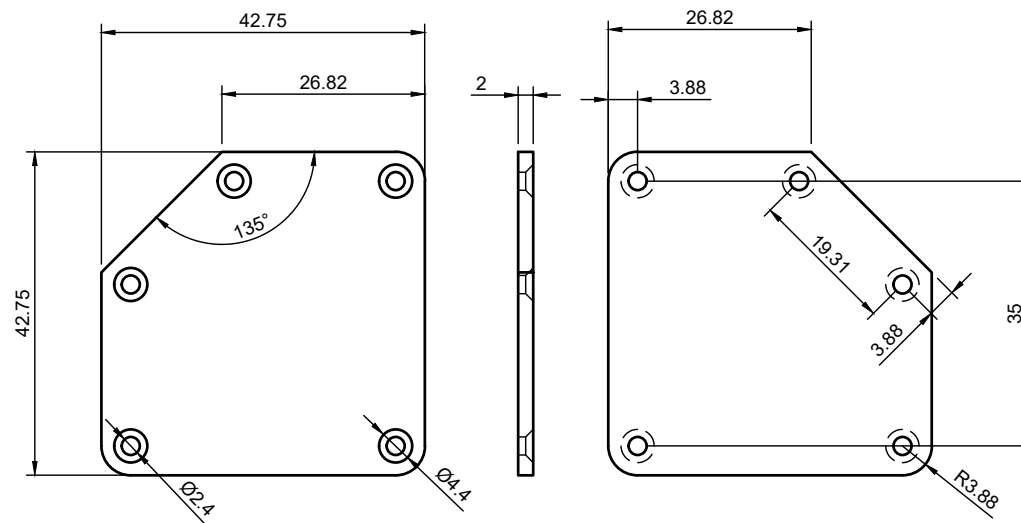
Parts List			
Item	Qty	Part Number	Description
1	14	BN 1052 1386859 threaded insert for welding M2.5	M2.5 Thread Inserts for 3D-Printed-Part
2	1	Hexagon nut DIN 934 M2 01300.020.001(High)	M2.5 Nut
3	10	WUERTH 402425 5 screw countersunk head ISO 14581 M2.5x5 Blank	M2.5 x 5 Countersunk head screw.
4	4	Screws GB 823 M2.5 X 5	M2.5x5 Cylinder head screw
5	1	USB C Power-Supply-Module	Power supply system and USB type C interface leading programming.
6	1	Save power module	Holder for Power Board 3D-Printed
7	1	CASE	Tracker case 3D-Printed
8	1	Cover BOTTOM	Cover bottom
9	1	Cover TOP	Cover top
10	1	WUERTH 40332 6 screw countersunk head ISO 14581 M2x6 Blank	M2 x 6 Countersunk head screw
11	1	LP401730	Battery Pack Polymer Li-ion Battery EEMB LP401730 150mA UN38.3
12	1	Logical-Module	



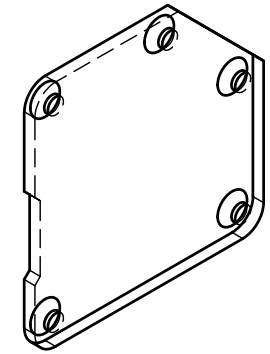
Dept. BIC/IoT	Dimension Unit / Scale mm / 1:1	Created by René Ramsauer 21.10.2022	Approved by Dominik Widhalm (In Progress)	
This is a design which was created in the course of Mr. Ramsauer's bachelor thesis. Any design and construction is legally to be seen as intellectual property of Mr. Ramsauer René. 		Document type Construction Overview	Document status Acceptance Requested	
		Title Construction Overview Tracker Bachelor thesis IoT - Localization Tracker	DWG No. 021-101-A	
		Rev. 1	Date of issue 21.10.2022	Sheet 1/7




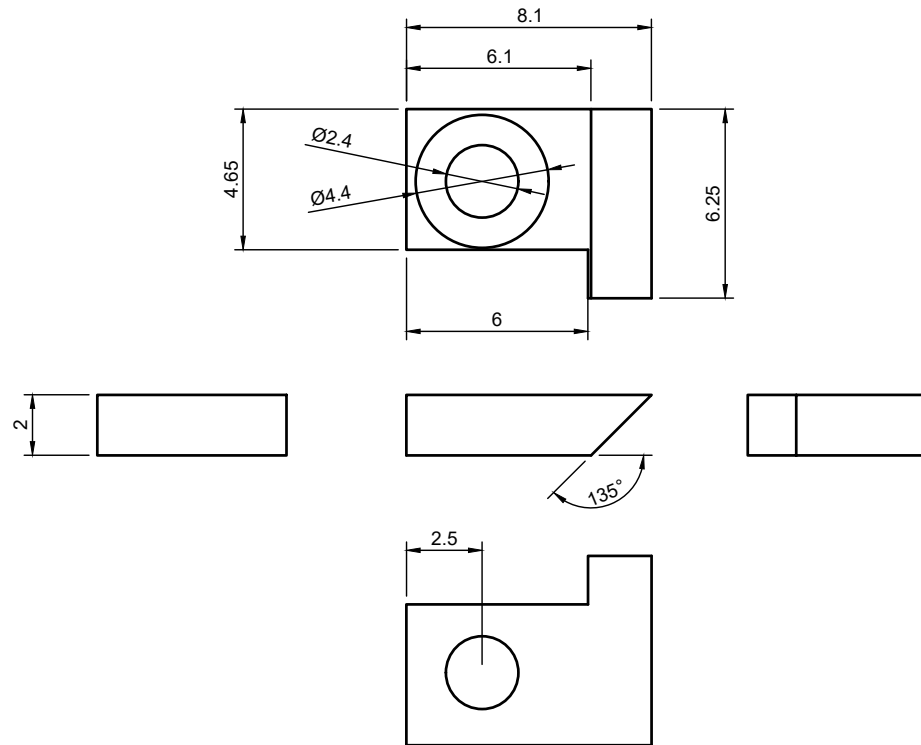
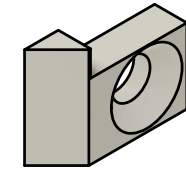
Dept. BIC/IoT	Dimension Unit / Scale mm / 1:1	Created by René Ramsauer 21.10.2022	Approved by Dominik Widhalm (In Progress)		
<p>This is a design which was created in the course of Mr. Ramsauer's bachelor thesis. Any design and construction is legally to be seen as intellectual property of Mr. Ramsauer René.</p> 		Document type Technical drawing	Document status Acceptance Requested		
		Title Case Tracker	DWG No. 021-101-A		
		Bachelor thesis IoT - Localization Tracker	Rev. 1	Date of issue 21.10.2022	Sheet 2/7




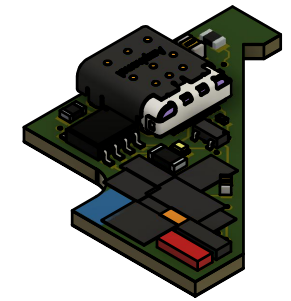
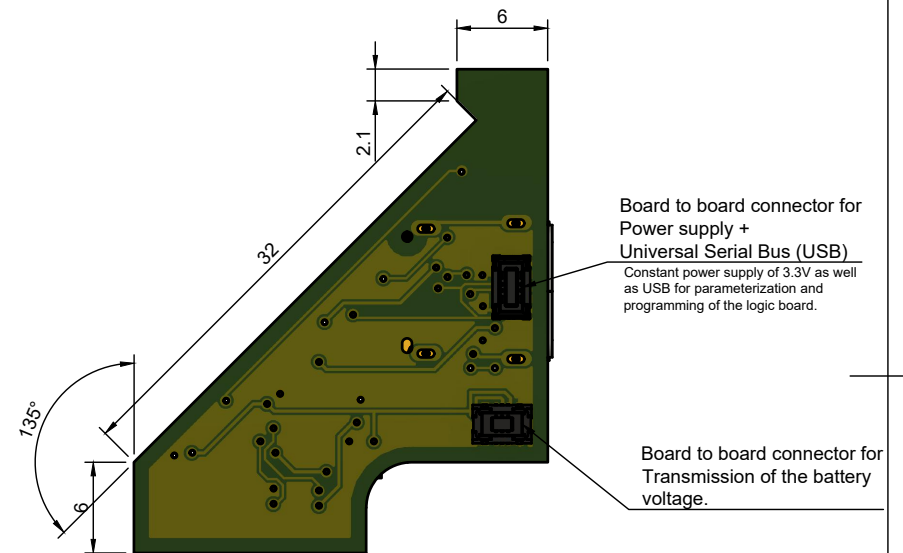
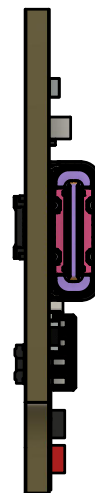
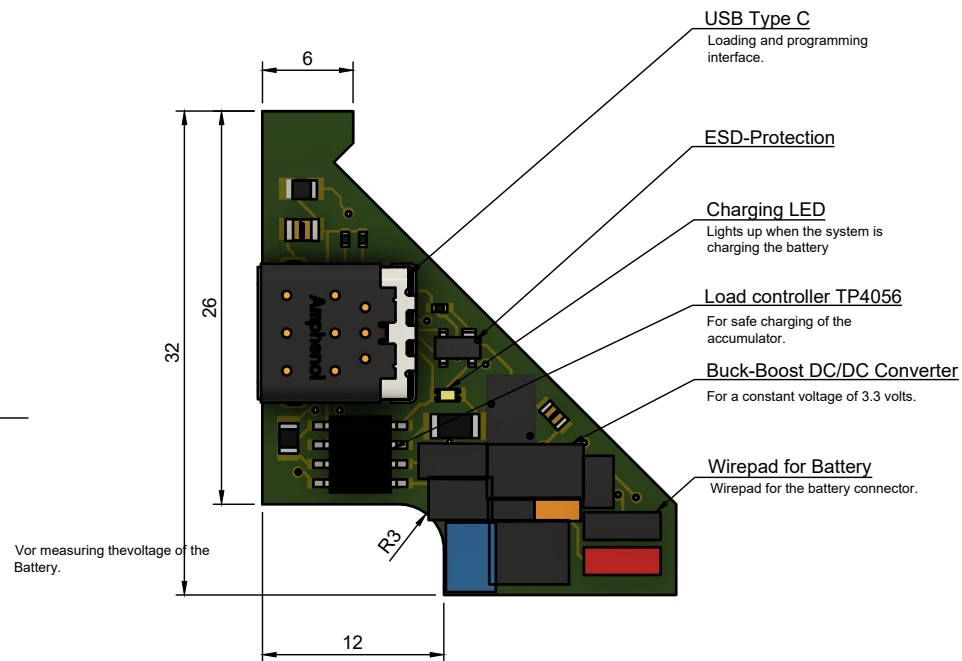
Dept. BIC/IoT	Dimension Unit / Scale mm / 1:1	Created by René Ramsauer 21.10.2022	Approved by Dominik Widhalm (In Progress)	
<p>This is a design which was created in the course of Mr. Ramsauer's bachelor thesis. Any design and construction is legally to be seen as intellectual property of Mr. Ramsauer René.</p> <p>FH University of Applied Sciences TECHNIKUM WIEN</p>		Document type Technical drawing	Document status Acceptance Requested	
		Title Cover TOP Tracker Bachelor thesis IoT - Localization Tracker	DWG No. 021-101-A	
		Rev. 1	Date of issue 21.10.2022	Sheet 3/7



Dept. BIC/IoT	Dimension Unit / Scale mm / 1:1	Created by René Ramsauer 21.10.2022	Approved by Dominik Widhalm (In Progress)		
<p>This is a design which was created in the course of Mr. Ramsauer's bachelor thesis. Any design and construction is legally to be seen as intellectual property of Mr. Ramsauer René.</p> 		Document type Technical drawing	Document status Acceptance Requested		
		Title Cover BOTTOM Tracker	DWG No. 021-101-A		
		Rev. 1		Date of issue 21.10.2022	Sheet 4/7
		Bachelor thesis IoT - Localization Tracker			




Dept. BIC/IoT	Dimension Unit / Scale mm / 4:1	Created by René Ramsauer 21.10.2022	Approved by Dominik Widhalm (In Progress)		
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		Title Case Save-Power-Board Tracker Bachelor thesis IoT - Localization Tracker	DWG No. 021-101-A		
			Rev. 1	Date of issue 21.10.2022	Sheet 5/7



Attention:

This system is designed only for the battery "EEMB LP401730". If you use other models, first check the data and compare this with the data listed in the circuit diagram. A wrong battery can lead to poor effectivity, to the defect of the system as well as pose a safety risk.

You can find the circuit diagram in then Plan with the Nr.: 022-101

Dept. BIC/IoT	Dimension Unit / Scale mm / 2:1	Created by René Ramsauer 21.10.2022	Approved by Dominik Widhalm (In Progress)		
<p>This is a design which was created in the course of Mr. Ramsauer's bachelor thesis. Any design and construction is legally to be seen as intellectual property of Mr. Ramsauer René.</p> <div></div>		Document type Technical drawing	Document status Acceptance Requested		
		Title Tracker USB C Power Supply Modul Tracker	DWG No. 021-101-A		
		Bachelor thesis IoT - Localization Tracker			
			Rev. 1	Date of issue 21.10.2022	Sheet 6/7

LED (System on power)

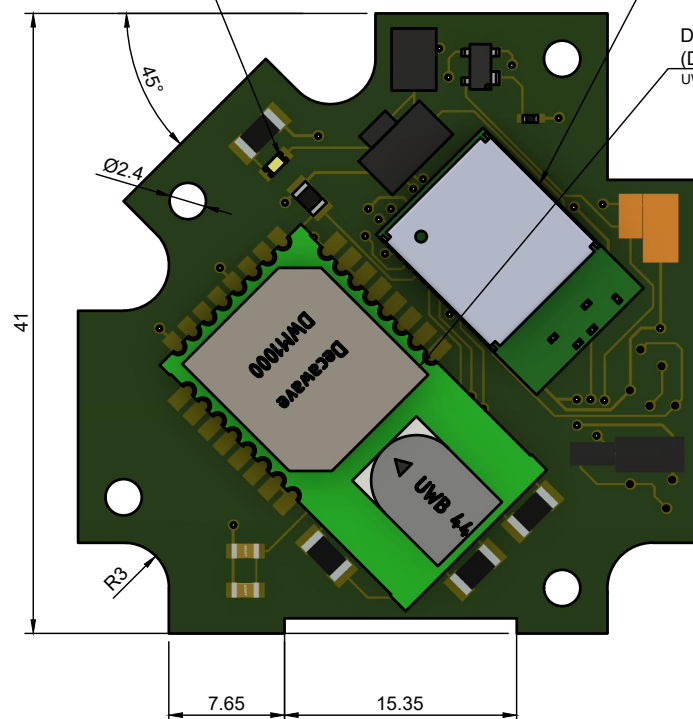
Indicates whether the microcontroller is supplied with voltage.

u-blox NINA B3 (nRF52840)

Is the central control unit and provides Bluetooth LE 5.0.

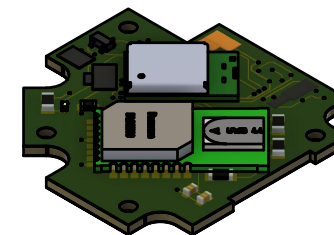
Decawave DWM1000 (DW1000)

UWB modules.

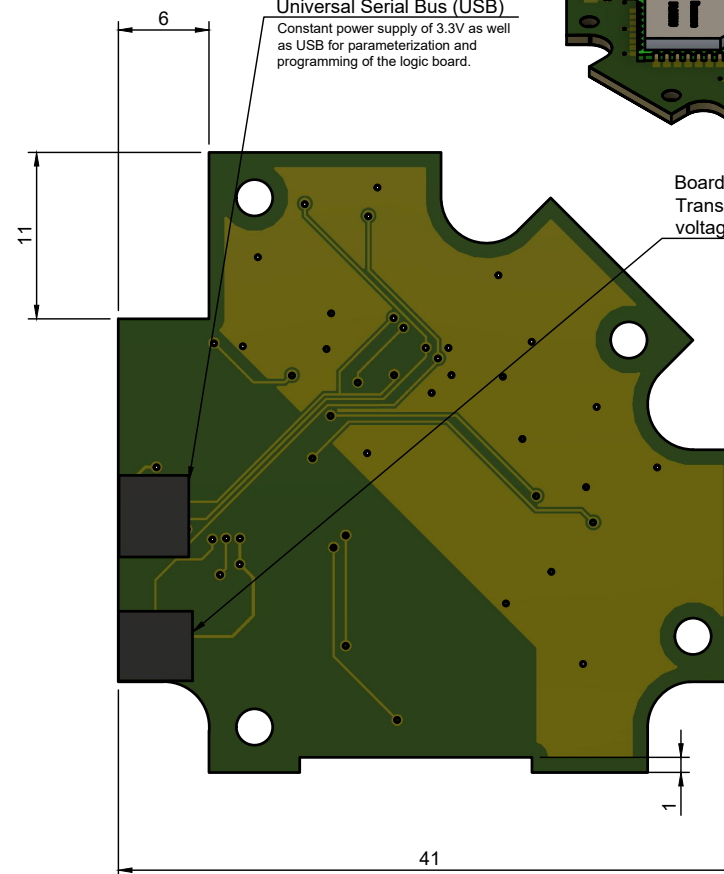



Board to board connector for Power supply + Universal Serial Bus (USB)

Constant power supply of 3.3V as well as USB for parameterization and programming of the logic board.



Board to board connector for Transmission of the battery voltage.



Dept. BIC/IoT	Dimension Unit / Scale mm / 2:1	Created by René Ramsauer 21.10.2022	Approved by Dominik Widhalm (In Progress)		
<p>This is a design which was created in the course of Mr. Ramsauer's bachelor thesis. Any design and construction is legally to be seen as intellectual property of Mr. Ramsauer René.</p> 		Document type Technical drawing	Document status Acceptance Requested		
		Title Tracker Logical-Module Tracker	DWG No. 021-101-A		
		Bachelor thesis IoT - Localization Tracker	Rev. 1	Date of issue 21.10.2022	Sheet 7/7