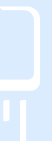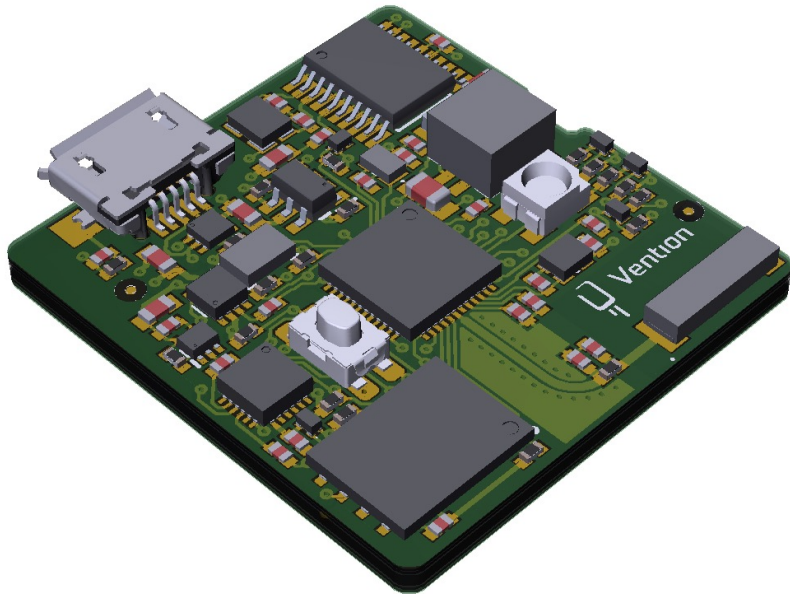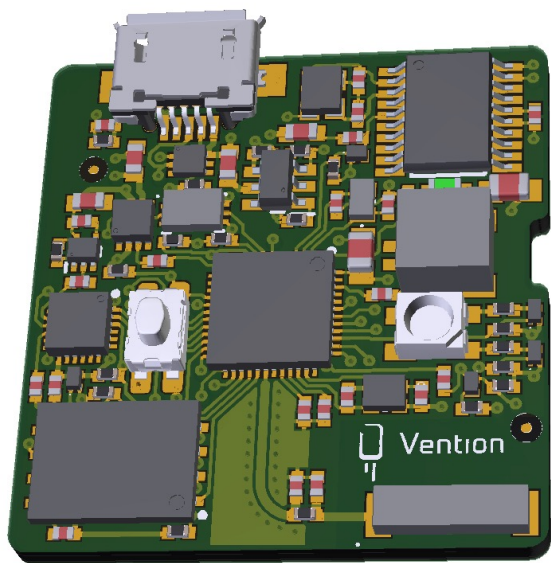# Wockel - modular Bluetooth motion sensor

- The Wockel is a modular movement sensor platform with Bluetooth connectivity.

- With the Wockel you are provided with a state-of-the-art motion sensor solution. Measure, save and stream all kinds of motion to perfectly match your needs.

- Small size (25x27mm)

- Bluetooth Low Energy 5.2 supporting & 4.2+ compatible

- Wireless charging

- Over-the-air firmware upgrades

- USB charging & communication

- Data sampling up to 900 samples/sec (local or live streaming)

- On-board memory for saving data up to 1 hour of motion capturing at 900 samples/sec or 10 hours at 100 samples/sec

- RGB LED for visual feedback

- Button for user input

- Active operating time of 1.5 hours with 100 mAh battery Li-ion

- Shelf time of more than 14 months with 100 mAh battery Li-ion

- Battery management with percentage indication and safety features

- Multiple IMU possibilities from budget 6DOF variants to high-end 9DOF variant

Wockel - modular Bluetooth motion sensor

The Wockel is not designed as a single product, but in multiple variants to ensure the best fit for different applications.

Three different variants are already been developed and ready to be used as your perfect solution.

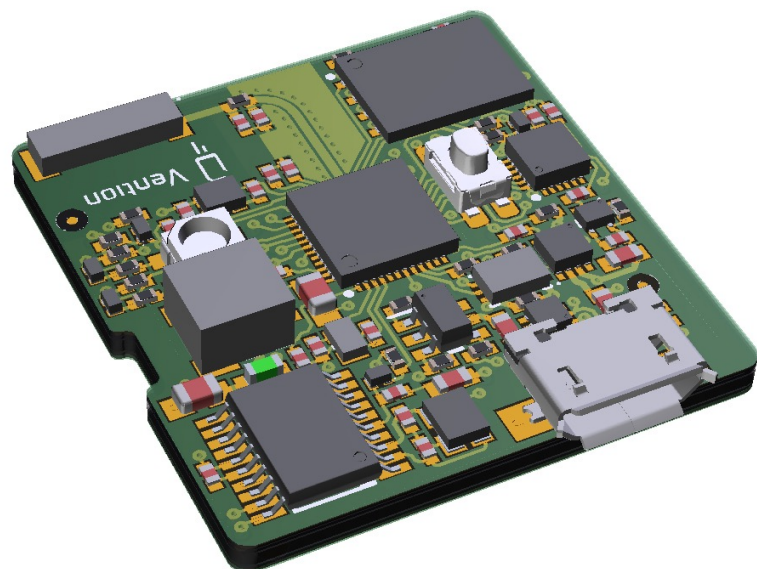| Budget	Light	Performance
Low-cost 6DOF IMU	Performance 6DOF IMU	Performance 9DOF IMU
(Micro-) USB charging	(Micro-) USB charging & data	Wireless charging (Qi)
128 Mbit flash memory 3.5h logging at 100 Hz	256 Mbit flash memory >7h logging at 100Hz	512 Mbit flash memory 10h logging at 100Hz 1h logging at 900Hz

Wockel - modular Bluetooth motion sensor

Besides three already developed variants, customization is also possible.

Based upon your wishes and our expertise, the most suitable components will be chosen to develop the perfect product. Different battery sizes can be implemented freely. Custom casings are also possible

All except *italic* have already been developed and ready to be used.

Sensors	Intertial Measurement Unit (IMU)
	Temperature
	Humidity
	Proximity
	...
Motion sensor (IMU)	6DOF budget variant
	6DOF performance variant
	9DOF performance variant
Charging	Wireless charging (Qi)
	Micro-USB
	USB-C
Memory (flash)	128 Mbit
	256 Mbit
	512 Mbit
	>512 Mbit
Battery	Lithium-Ion 100mAh
	Ranging from 20 mAh up to 10.000mAh

Vention

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