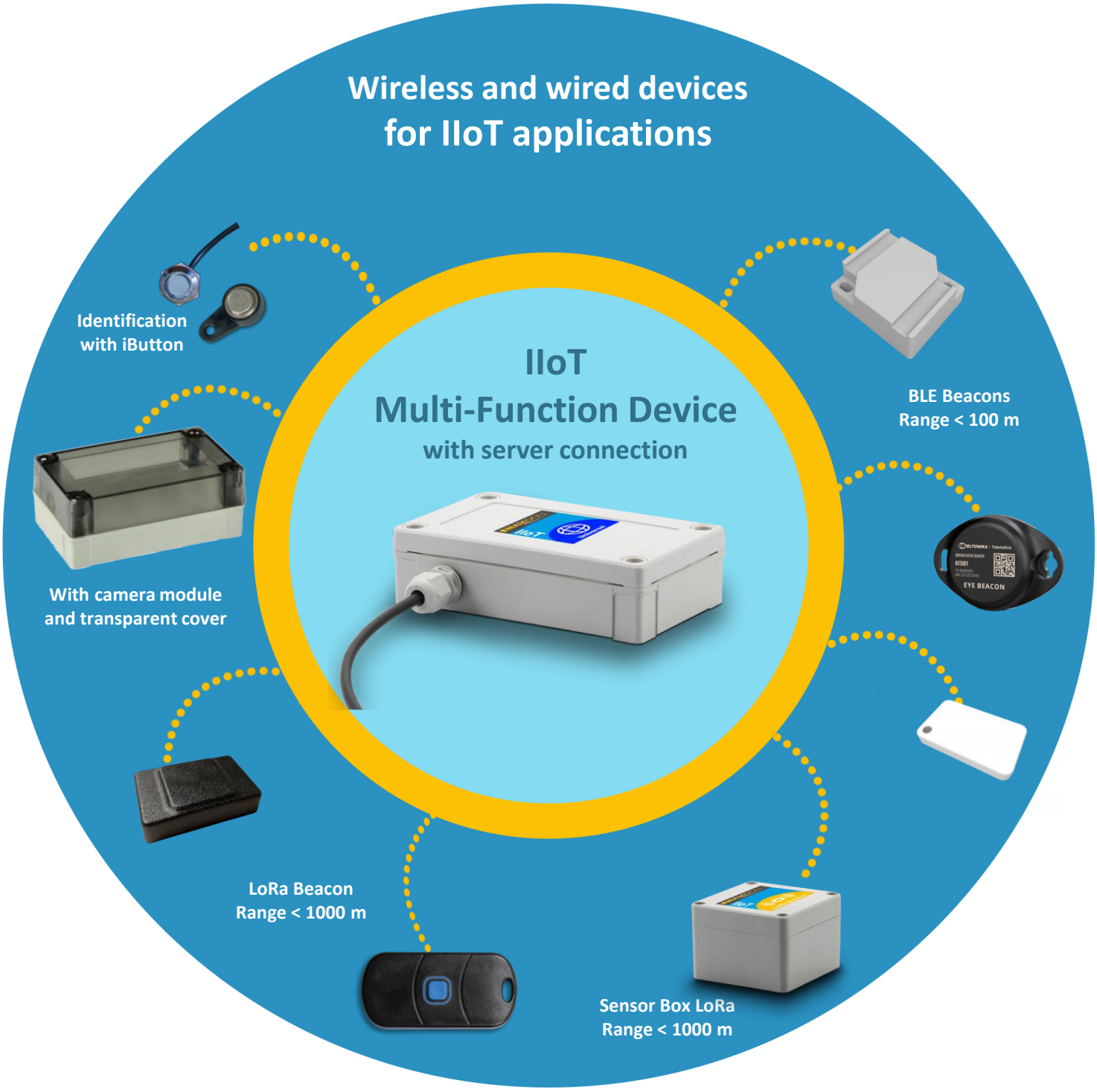
ENAiKOON

MADE IN GERMANY

IIoT device overview



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Devices for IIoT applications

Device	Designation	specification
	**IIoT Multi-Function Device** for IIoT solutions	**Applications:** suitable as **a gateway, beacon scanner, tracking module, telemetry unit, camera control** , and much more **Cellular:** LoRa/LoRaWAN, BLE, Wi-Fi, mobile radio, GNSS **Wired:** DigIn, DigOut, AnIn, AnOut, RS232, RS485, 1Wire, Ethernet (PoE) **Power supply:** 220V power supply, vehicle electrical system (6V/12V/24V), battery, solar **Miscellaneous:** buzzer, reed relay, temperature sensor, humidity sensor, battery charging circuit, 2 processors for double the computing power, waterproof IP67, operating temperature: -40 °C ~ 80 °C Size: 130x80x35 mm, weight: 200 g
	**Autonomous Tracking Device** for IIoT solutions	**Applications:** suitable as **a tracking module, beacon scanner** **Cellular:** LoRa, LoRaWAN, BLE, mobile radio **Miscellaneous:** 3D acceleration sensor up to 2 high-performance lithium batteries, 16Ah, 3.9 V, Mono-D battery, at least 10 years with 1 position per day, waterproof IP66K, operating temperature: -40 °C ~ 80 °C size: 150x80x41 mm, weight: approx. 480 g
	**IIoT Sensor box** LoRa, robust, waterproof	**Applications:** temperature sensor, humidity sensor, 3-axis motion sensor, other sensors on request **Cellular:** LoRa, range: up to 1000 m in clear line of sight **Miscellaneous:** batteries: e.g. 2 x 8,500 mAh waterproof IP67, operating temperature: -40 °C ~ 80 °C, size: 82x80x55 mm, weight: 102-200 g depending on the battery
	**LoRa Beacon** robust, waterproof	**Applications:** identification of objects, places, people, animals in harsh environments or in difficult radio conditions at long distances **Cellular:** LoRa / LoRaWAN, range up to 1000 m in clear line of sight **Miscellaneous:** ▪ temperature sensor, 3D acceleration sensor ▪ battery: 700 mAh, at least 5 years battery life ▪ waterproof IP68, operating temperature: -20 °C ~ 60 °C ▪ size: 57x35x16 mm ▪ weight: 35 g

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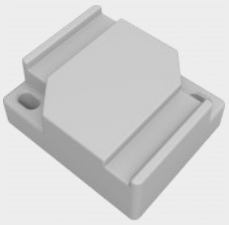	**BLE Beacon** BLE, robust, waterproof	**Applications:** identification of objects, places, people in harsh environments **Wireless:** Bluetooth 5.2, range up to 100 m in clear line of sight **Miscellaneous:** data format: iBeacon, Eddystone, TLM battery: 550 mAh, at least 5 years battery life waterproof IP69k operating temperature: -20 °C ~ 85 °C size: 38x32x16 mm, weight: 27 g
	**BLE EYE Beacon** BLE, robust, waterproof	**Applications:** Identification of objects, places, people in harsh environments **Wireless:** Bluetooth 5.2, range up to 80 m in clear line of sight **Miscellaneous:** data format: iBeacon, Eddystone battery: 600 mAh, at least 5 years battery life waterproof IP67 operating temperature: -20 °C ~ 60 °C size: 56.6x38x13 mm, weight: 18 g
	**BLE Beacon** BLE, simple	**Applications:** identification of objects, places, people **Wireless:** Bluetooth 5.2, range up to 100 m in clear line of sight **Miscellaneous:** data format: iBeacon, Eddystone, TLM battery: 220 mAh, at least 2 years battery life waterproof IP55 operating temperature: -20 °C ~ 85 °C size: 37x22x6 mm weight: 7 g
	**Temperature Sensor** LoRa, robust, waterproof	**Applications:** temperature recording in refrigerators, incubators, data centers, animal transport, etc. **Radio:** LoRa, range: up to 1000 meters with clear line of sight **Miscellaneous:** batteries: AAA 3.6 V, 750 mAh, replaceable waterproof IP67 operating temperature: -30 °C ~ 85 °C size: 70x34x15 mm weight: 31 g

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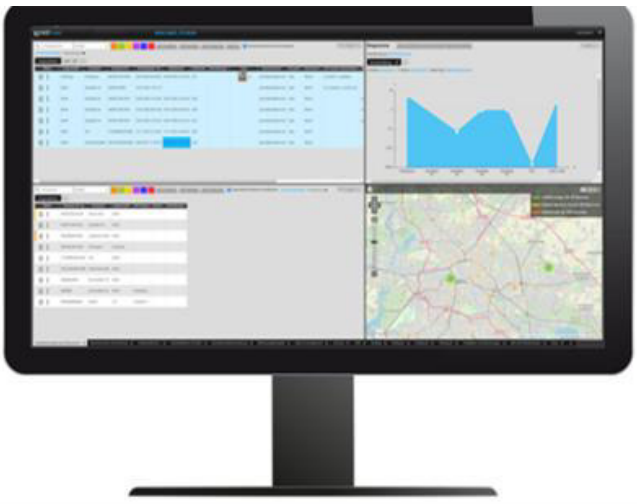
	**Camera Extension** In the housing of the multifunction device	**Applications:** ▪ determining the progress of unloading trailers ▪ decurity applications **Characteristics:** ▪ installation in the housing of the multifunctional device; thus IP67 waterproof, mechanically well protected, cable connection ▪ operating temperature: -20 °C ~ 60 °C ▪ size: 130x80x50 mm ▪ transparent cover for camera view and 6 status LEDs
	**iButton Key and Reader** Very robust, magnetic	**Applications:** ID of people ▪ Drivers of vehicles ▪ Access control ▪ Time recording **Characteristics:** ▪ 1Wire connection, 2 LEDs for booking confirmation ▪ magnetic ▪ for indoor use

Connection to the ENAiKOON web portal inViu pro

ENAiKOON inViu pro is the **web platform for monitoring any trackables** such as cars, trucks, construction machinery, containers, agricultural vehicles, cranes, small equipment, animals, people and much more

In addition to GPS tracking, the platform offers a variety of **evaluations** , e.g. logbooks, operating hours, preventive maintenance data, temperature monitoring, tank level management and much more.

Mobile **Asset Management** is an integral part of the platform. Key reports in this context include:



- Where is each **small device** currently:
  GPS coordinates / construction site name / warehouse
- Who is responsible for which small appliance:
  seamless **chain of responsibility** – at any given time, a specific employee is responsible for each part
- Which small device is assigned to which **cost center** :
  Raw data for the post-calculation of a construction site
- Which small equipment is currently available / not available:
  Optimization of the inventory of small equipment; no unwanted hoarding of small equipment on construction sites
- What is the **utilization rate** of a category of small appliances: are there too many appliances of one type, so that their stock should be reduced?
- How high is the **loss** of small equipment per equipment class, per construction site, per employee?

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