



IIoT device overview







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: Digln, 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
EGENTATION ALL Tolerandros EGENTATION BLOCK BISCOL ENTREMENTATION EFYE BEACON	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



Devices for IIoT applications

Device

Designation

Camera

Extension

In the housing of the

multifunction device

specification

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?

