# WELCOME TO
# iDTRONIC

# Agenda

iD

**Total of 35 slides**

# Why Choose Us?

- In-House Manufacturing

- ISO 9001 & GS1 Certified

- Future-proof and customized products for your specific requirements

- We stand for innovative solutions tailored to your individual needs

# Our Success in Numbers

iD

## 2003
Foundation

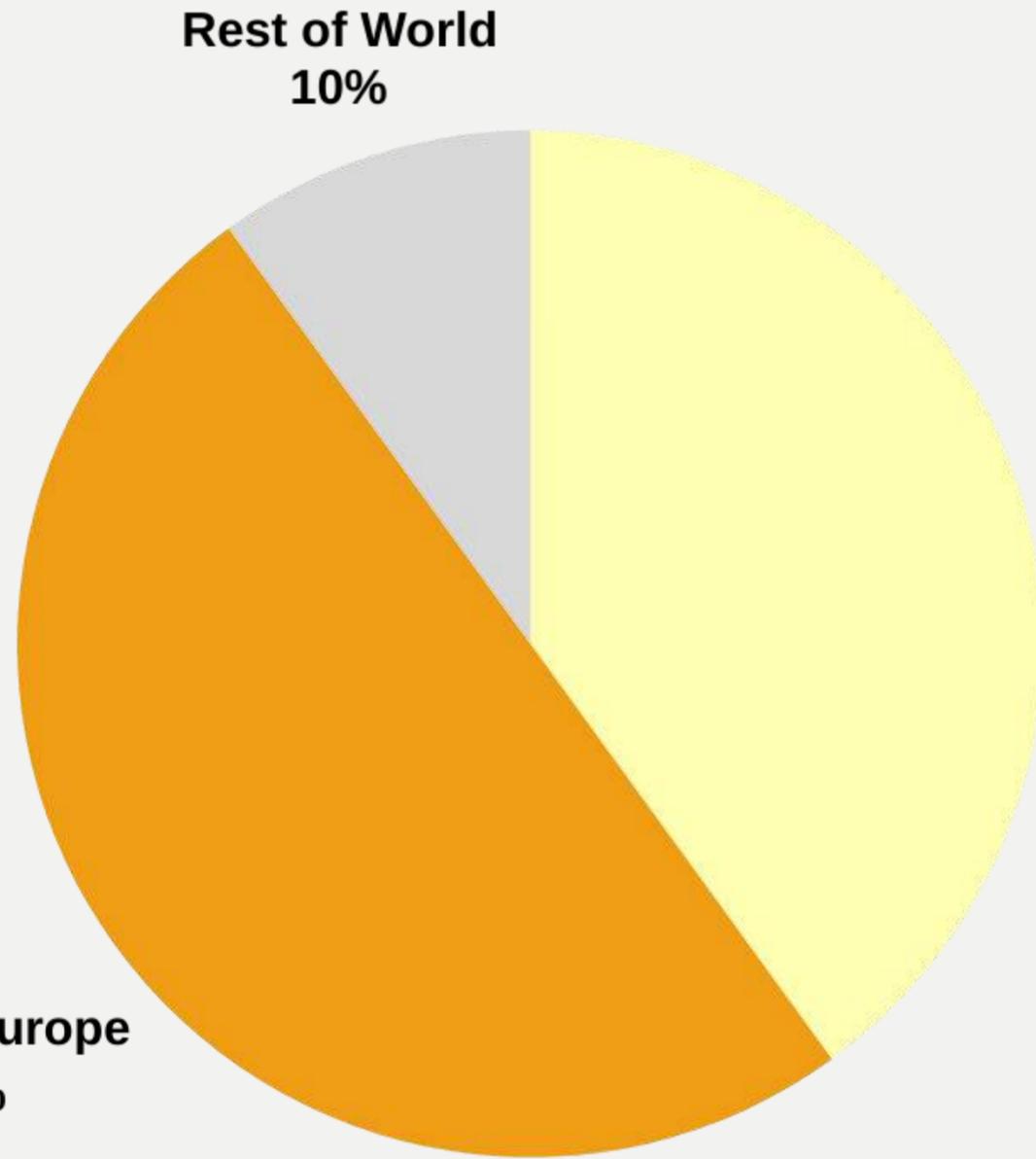## 3
Offices

## 5.3 mill. €
Revenue in 2023

## 9
Distributors

## >24
Employees

## GmbH
Legal Form

# Our Global Distribution

# Our Customers

**Automotive Industry**

**Industry & Automation**

**Leisure and Tourism**

# Certificates

# How does RFID work?

**DATABASE**
Data is transmitted to connected database where it gets identified.

**RFID Reader**
Transeiver & antenna; receives data from the RFID tag.

**RFID Tag**
Transponder with circuit & antenna; transmits data to reader.
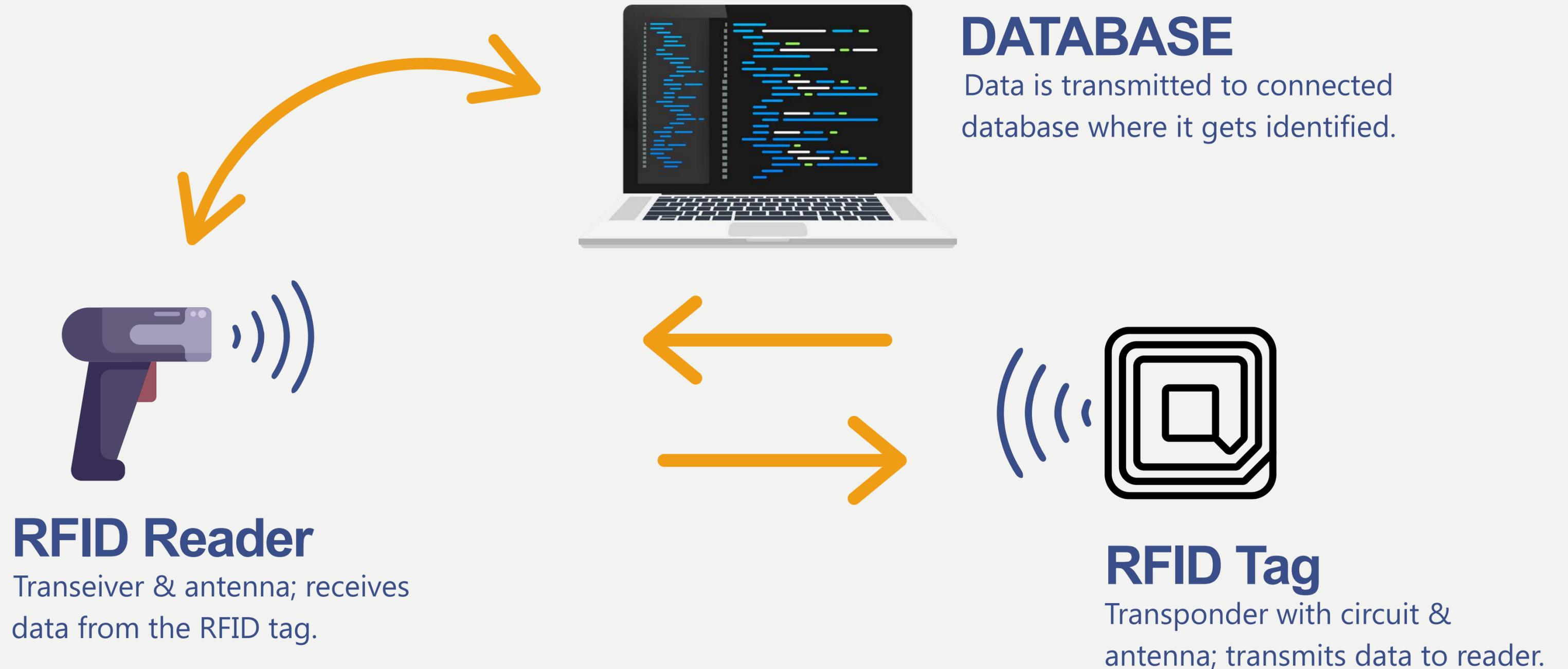
# What are the benefits of RFID?

- ✓ It increases operational efficiency

- ✓ It eliminates human errors

- ✓ It reduces capital costs

- ✓ It grants access to real-time data

- ✓ Offers insights for decision making

# RFID READERS

# Industrial Reader



| | Desktop Reader NEO 2 | Can-Bus Ignite Smart | Mid Range Reader BLUEBOX | Cylindrical Reader M30 | Panel Reader NEO |
|---|---|---|---|---|---|
| **Frequency** | UHF, HF, LF, LEGIC | HF \| NFC: 13.56 MHz | UHF: 865 – 868 MHz | UHF: 865 – 868 MHz | HF \| NFC: 13.56 MHz |
| **Dimensions / IP** | 115 x 70 x 17mm | 81.4 x 68.6 x 24.1mm / IP64 | 190 x 190 x 80mm / IP65 | M30 x 1.5 x 90.65mm / IP65 | ø 22.3 mm / IP65 |
| **Antenna** | Integrated ✅ | | | | |
| **Reading Distance** | Up to 5m (UHF: up to 15m) | Up to 3cm | up to 8m | up to 40cm | up to 2 cm |
| **Interfaces** | USB - Virtual ComPort USB - HID | CANbus (SAE J1939 or CANopen) | M12 Connectors | RS232, RS485, CANbus, CANopen | USB, RS232, PC/SC, HID |
| **Connections** | 120 cm long cable with USB- Type-A plug | JST 04T-JWPF-VSLE-S, 0.33 mm²/AWG22 wire gauge | RS232 / RS485 Ethernet 10 - 100M Wiegand Canbus (J1939) | 5 pin M12 A-coded male connector | Cable with open end |
| **Scope of Application** | Point of Sales (POS), Single Sign-On (SSO), Document Management | Electric Vehicles, Any conventional vehicle with CANbus | Parking, Waste Management, Logistics | Material Handling, Tracking & Tracing, Production Control | Automation, Industry 4.0, Supply Chain |

# Industrial Reader Family IQBOX (NEW)



| | Desktop IQBOX | M30 IQBOX | Long Range Reader/Antenna IQBOX E4 | Long Range Reader/ 4CH IQBOX U4 |
|---|---|---|---|---|
| Frequency | UHF: 865 – 868 MHz | UHF: 865 – 868 MHz | UHF: 865 – 868 MHz | UHF: 865 – 868 MHz |
| Dimensions / IP | | | 205 x 205 x 70mm | |
| Antenna | | Integrated ✅ | | 4x external |
| Reading Distance | Up to 30cm | Up to 30cm | up to 10m | Up to 12m |
| Interfaces | USB | RS232/RS485 CanBus | RS232 / RS485 Ethernet 10–100M CanBus, ModBus, ProfiNET | RS232 / RS485 Ethernet 10–100M CanBus, ModBus, ProfiNET |
| Scope of Application | Encoding | Industrial and Logistical Applications, Data Collection (IoT), | Industrial and Logistical Applications, Data Collection (IoT), | Industrial and Logistical Applications, Data Collection (IoT), |

# Mobile RFID

# Mobile RFID

| | C9 RED TABLET | C10 TABLET | C11 ATEX | C12 TABLET |
|---|---|---|---|---|
| **Frequencies** | UHF (865 - 868 MHz) HF \| NFC (13,56 MHz) LEGIC Advent & Prime \| LF (125 & 134,2 KHz) | | HF \| NFC (13,56 MHz) | |
| **Dimensions** | 230 × 142 × 18 mm | 274.9 x 188.7 x 23.1 mm | 274.9 x 188.7 x 23.1mm | 263 x 177 x 10.5mm |
| **Reading Range** | UHF (1.5 to 2.0 m) HF \| NFC \| LEGIC (3 to 8 cm) LF (2 to 10 cm) | 2 to 5 cm | 2 to 5 cm | 2 to 5 cm |
| **Battery Life** | Rechargeable li-ion Polymer 3.8 V, 8.000 mAh | 10000mAh rechargeable lithium polymer battery (removeable) | 5000mAh rechargeable lithium polymer battery (removeable) | 4750mAh/7.6V, Built-in Li-polymer battery |
| **Camera** | Rear: 13.0 Megapixel \| Front: 5.0 Megapixel Autofocus with LED Flash | Front 5.0MP Rear 13.0MP, autofocus with flash | Front 5.0MP Rear 8.0MP, autofocus with flash | Front 5.0MP Rear 13.0MP |
| **Interface** | USB-C (Quick Charging Mode) x1 | USB 2.0 Type-A x1 | USB 2.0 Type-A x1, USB Type-C x1 | USB Type-C x1 |
| **Operating System** | Android™ 10 | Android 12 | Windows 11/10 | Windows 11 Pro Android 11 |

# Mobile RFID

iD

|  | C9 RED PDA | C9 BLACK PDA | C13 PDA | C14 PDA |
|---|---|---|---|---|
| **Frequencies** | UHF (865 - 868 MHz)<br>HF \| NFC (13,56 MHz)<br>LEGIC Advent & Prime \| LF (125 & 134,2 KHz) | | HF \| NFC (13,56 MHz) | |
| **Dimensions** | 170.8 × 81 × 20.4 mm ±2 mm | 166 × 79 × 27 mm ±2 mm | 157.4 x 74.6 x 24.2mm | 181.1 × 87.8 × 29.05 mm |
| **Reading Range** | UHF (1.5 to 2.0 m)<br>HF \| NFC \| LEGIC (3 to 8 cm)<br>LF (2 to 10 cm) | UHF (up to 1.5 m)<br>HF \| NFC \| LEGIC (up to 6 cm)<br>LF (2 to 10 cm) | 2 to 5 cm | 2 to 5 cm |
| **Battery Life** | Rechargeable li-ion Polymer<br>3.8 V, 8.000 mAh | Rechargeable li-ion Polymer<br>3.8 V, 4.800 mAh | 3.87 V, 4000 mAh Lithium-ion<br>Battery (removable) | Built-in Polymer Lithium-ion<br>Battery 3.87 V, 20000 mAh |
| **Camera** | Rear 13 megapixel, front 5.0 megapixel Auto-focus with LED flash | Rear: 13.0 Megapixel<br>Front: 5.0 Megapixel<br>Autofocus with LED Flash | Front: 5.0 Megapixel<br>Rear Main:<br>Camera 13.0MP, Autofocus | Front: 32 Megapixel<br>Rear Main: Camera 48MP,<br>Autofocus, Supports PDAF |
| **Interface** | USB-C (Quick Charging Mode) x1 | USB-C (Quick Charging Mode)) | Micro USB 2.0 x 1 | Type C *1<br>(Charging/Data/Earphone/<br>Reverse charging 10W) |
| **Operating System** | Android™ 13 | Android 10 | Android™ 11 | Android™ 14 |

# Embedded RFID

# Embedded RFID UHF



| | M500 | M600 | M620 | M630 | M650 | M700 |
|---|---|---|---|---|---|---|
| **Frequencies** | UHF (865 - 868 MHz) | | | | | UHF (840 – 960 MHz) |
| **Dimensions** | 21 × 21 × 3.7 mm | 28 × 28 × 4 mm | 55.9 × 35.6 × 6 mm | 55.9 × 35.6 × 6.5 mm | 74.8 × 48.5 × 8 mm | 183 × 174 × 25.5 mm |
| **Reader IC** | E310 / E510 / E710 | E310 / E510 / E710 | E710 | E710 | E710 | E710 |
| **TX Power** | 5dBm - 27dBm (±1dB) adjustable | +5...30 dBm, adjustable in steps of 1 dB | +5...33 dBm, adjustable in steps of 1 dB | +5...26 dBm, adjustable in steps of 1dB | +5...33 dBm, adjustable: steps of 1 dB | 5dBm-33dBm (±1dB) Adjustable |
| **Reading Distance** | ≥3m with 3 dBi antenna | Up to 9 meters | Up to 9 meters | ≥3 m, with 2.5 dBi ceramic antenna | Up to 12 meters | up to 12 meters |
| **Power Supply** | 3.6~5.0 +/-5% | 3.6...5 Vdc | 5 Vdc | 3.6...5 Vdc | 5 Vdc | DC 12V / 3A / PoE |
| **Interfaces** | SMD Uart3.3V TTL | UART TTL port | UART TTL port | UART TTL port | UART TTL port | UART serial port |
| **Antenna Connector** | Solder Joints | Solder Joints | MMCX x1 | MMCX x2 | SMA Socket x4 | TNC-Male: 4 external (50 Ω) SMA - Male: 8 external (50 Ω) 16 external (50 Ω) |

# Smart Locks

**RFID SMART LOCKS**

# Smart Locks

| | OTS 10 BASIC | OTS 20 BATTERYLESS | OTS 20 ADVANCE | OTS 40 PULSE | OCS SMART |
|---|---|---|---|---|---|
| **Communication Standard** | Mifare / NFC | Mifare / NFC | Mifare / NFC | Mifare / NFC | Code and/or Bluetooth |
| **Dimensions / IP** | 109,5 x 35 x 118 mm / IP55 / IK09 | 108 x 65 x 35mm / IP55 / IK09 | 109,5 x 118 x 23mm / IP55 / IK09 | 119,5 x 35 x 118mm / IP55 / IK09 | 119 x 62 x 8mm / IP55 / IK09 |
| **Reading Range** | Up to 2cm | Up to 2cm | Up to 2cm | Up to 2cm | Up to 100cm (BT) |
| **Battery Life** | Up to 10 years | Generates its own energy when using the lock | Up to 10 years | Up to 8 years | Up to 5 years |
| **Appearance** | Built-In | Built-In | Built-In | Built-In | Installation |
| **Scope of Application** | Gym Locks, Metal Doors | Wellness Facilities, Offices, Universities | Gyms, Offices, Universities | Schools, Offices, Leisure Facilities | Sports Facilities Leisure Facilities, Offices |

# RFID TAGS
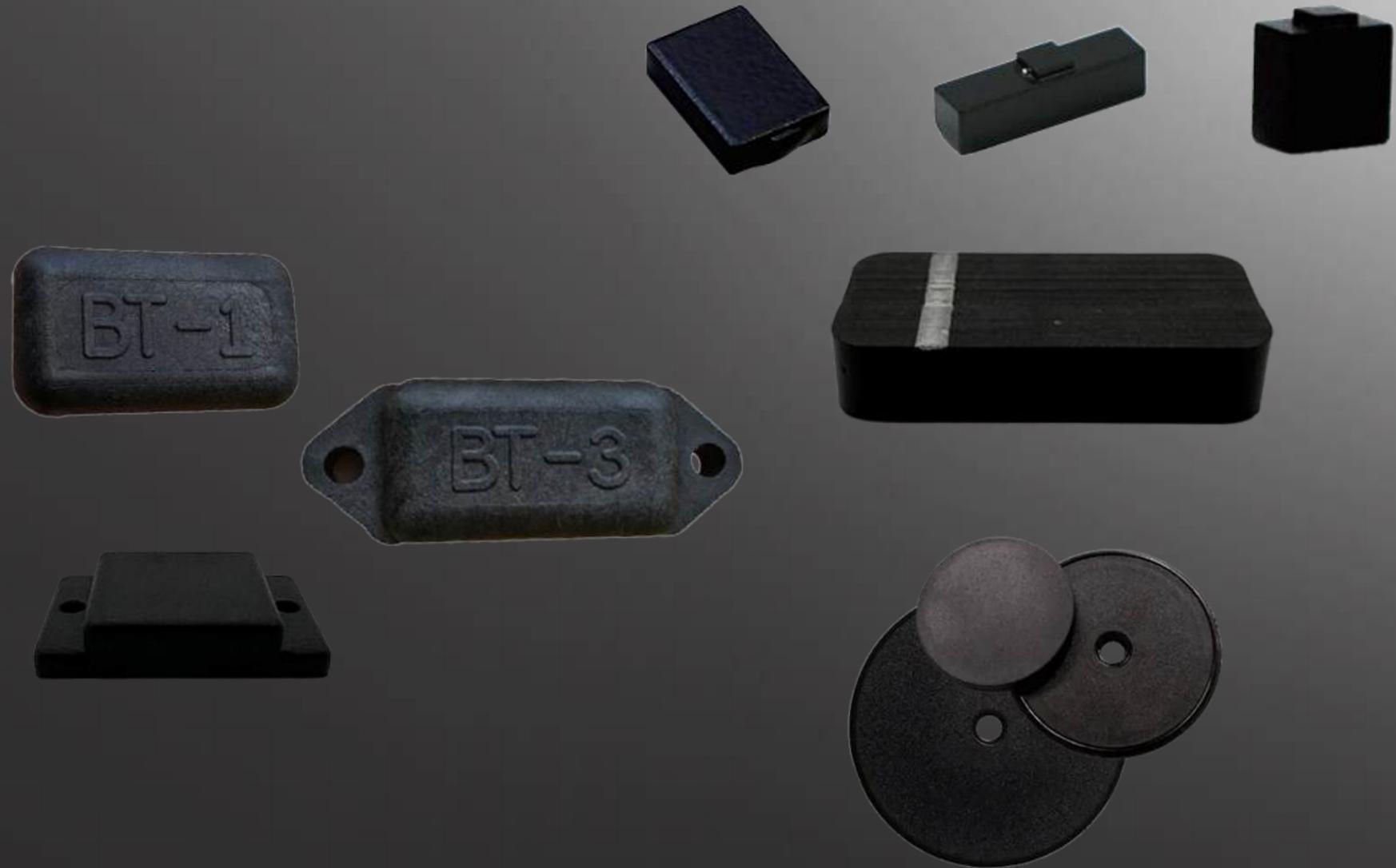
# Professional Tags
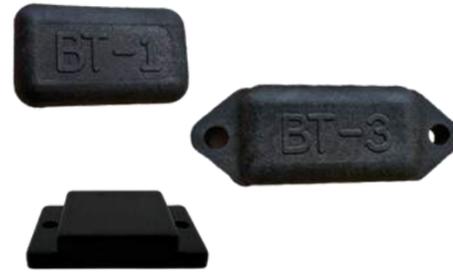


| | Disc Tags | High Temp. Tags | Heavy Duty Tags | Ceramic Tags | Printed Labels |
|---|---|---|---|---|---|
| **Frequency** | HF: 13.56 MHz / LF: 125 KHz | UHF: 866 - 869 MHz | UHF: 865 - 869 MHz | UHF: 865 - 869 MHz | HF: 13.56 MHz / LF: 125 KHz |
| **Dimensions** | avg. 25mm round | avg. 50x27mm | Different Dimensions | avg. 13x9mm | Square, Round, Triangular |
| **Material** | ABS, PET (Polyester), Epoxy, PVC | Polymer - PPO / Resin with Ceramic Filler / High Temperature Nylon | High Temperature Plastic / Steel Shell / Polyolefin Thermoplastic / PTFE Teflon | Ceramic | Siliconized Paper |
| **Scope of Application** | Warehouse, Production, Logistics, Retail | Suitable for High Temperature Environments, Production, Logistics | Durable Tag for Rough Environments, Production, Logistics | Asset Tracking, Security Management, Warehouse Management | Logos and Barcodes, Serialization, Compatibility with Various Surfaces |

**Coming soon:** On Metal Tags, Rugged Tags, Ultra Rugged Tags, ATEX Tags, Embeddable Tags, Flexible Tags, Soldable Tags, Cable Tie Tags, Autoclave Tags

# RFID KEYFOBS

# RFID WRISTBANDS

# RFID SMARTCARDS

# TURNSTILES & SPEED GATES

# Access Control



| | ID GATE 6200 | ID GATE 7700 | ID GATE 5600 | ID GATE 5800 | ID GATE 2400 | ID GATE 2000 |
|---|---|---|---|---|---|---|
| **Dimensions / IP** | 360 x 260 x 980mm / IP44 | 1280 x 230 x 980mm / IP44 | 880 x 980 x 600mm / IP4X | 1080 x 978 x 450mm / IP4X | 200 x 260 x 1000mm / IP44 | 1630 x 1550 x 2300mm |
| **Material** | Stainless Steel 304 / Stainless Steel 312 | Stainless Steel 304 / Stainless Steel 312 | Aluminium Alloy - Anthracite Anodized | Steel Anthracite Anodized Stainless Steel | Stainless Steel 304 / Stainless Steel 312 | Stainless Steel 312 |
| **Capacity** | 35 People per Minute | 35-40 People per Minute | 35-50 People per Minute | 55 People per Minute | 40 People per Minute | 35-50 People per Minute |
| **Interfaces** | Relaissignal, RS485 | | | | | |
| **Place of Operation** | Indoor / Outdoor | Indoor / Outdoor | Indoor Only | Indoor Only | Indoor / Outdoor | Outdoor Only |
| **Scope of Application** | Fitness Studios, Museums, Leisure Parks | Fitness Studios, Museums, Leisure Parks | Offices, Industrial Facilities, Spas | Airports, Office Buildings, Public Facilities | Office Buildings, Airports, Train Stations | Swimming Pools, Gyms, Parking Garages |

**TrackMini**

**Traeck**

**TrackEdge**

# Complete IoT solutions

Get all components from a single source

## Hardware

### LoRaWAN / Cellular

Versatile asset trackers for tracking and monitoring objects and operational resources

## Software

### pyliot APP

Cloud-based platform for capturing, storing, and visualising location and status data

## Services

### Full Care

Comrehensive support through provisioning, setup, maintenance, and performing monitoring

# TrackMini Industrial
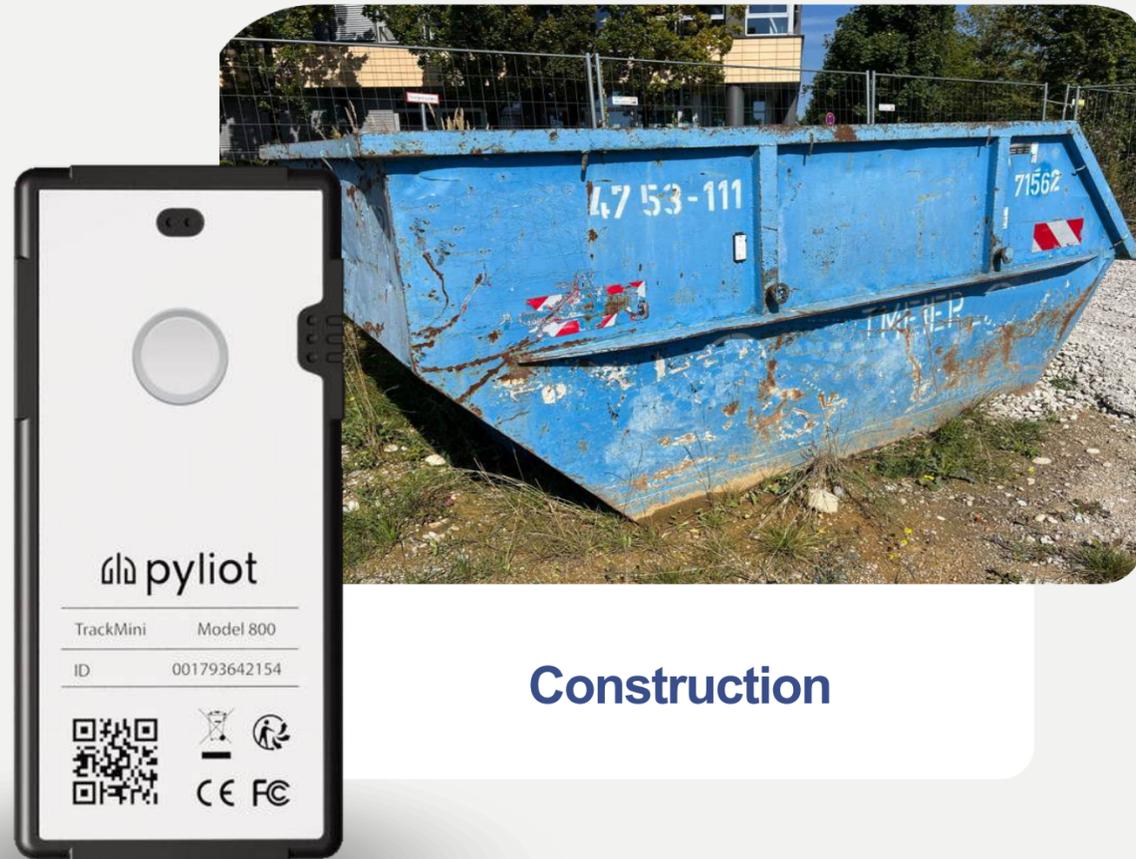
Hardware



**Pharma Logistics**

Indoor/outdoor GNSS asset tracker with multi-sensing features made for **space-critical monitoring** use-cases.

For example, TrackMini Industrial monitors temperature-controlles boxes used for transporting medical products along global land and air routes.

🌡️ **Temperature**          💧 **Humidity**

🤲 **Box Handling**          📍 **Location**

# TrackMini Slim

Hardware



**Construction**

Versatile & ultra-compact GNSS asset tracker made for pure **outdoor tracking** use-cases.

For example, TrackMini Slim monitors roll-off containers both on and off construction sites, detecting unexpected movements to help prevent theft.

📍 **Location**          ↕ **Movement**

🔔 **Alarm generation**

05 - Applications

# TrackMini Badge

Hardware

**iD**



**Healthcare**

A lightweight and discreet personal tracking device designed to identify individuals and safetfy use-cases.

For example, TrackMini Badge monitors patience within hospital grounds and notifies if individuals leave the premises.

📍 **Location**          ⬚ **Geofence tracking**

✛ **Movement**          🔔 **Alarm generation**

# pyliot App

✓ **Customizable, cloud-based IoT Platform:** Integration of location and status data with customizable dashboards, real-time alerts for threshold violations, geofencing, and reporting

✓ **Standardized API interface:** Easy integration into existing systems via a data format optimized specifically for IoT applications using REST API.

✓ **Flexible user management:** Multi-tenacy enables efficient setup and management of customer-user relationships in the corparate design of your organization.
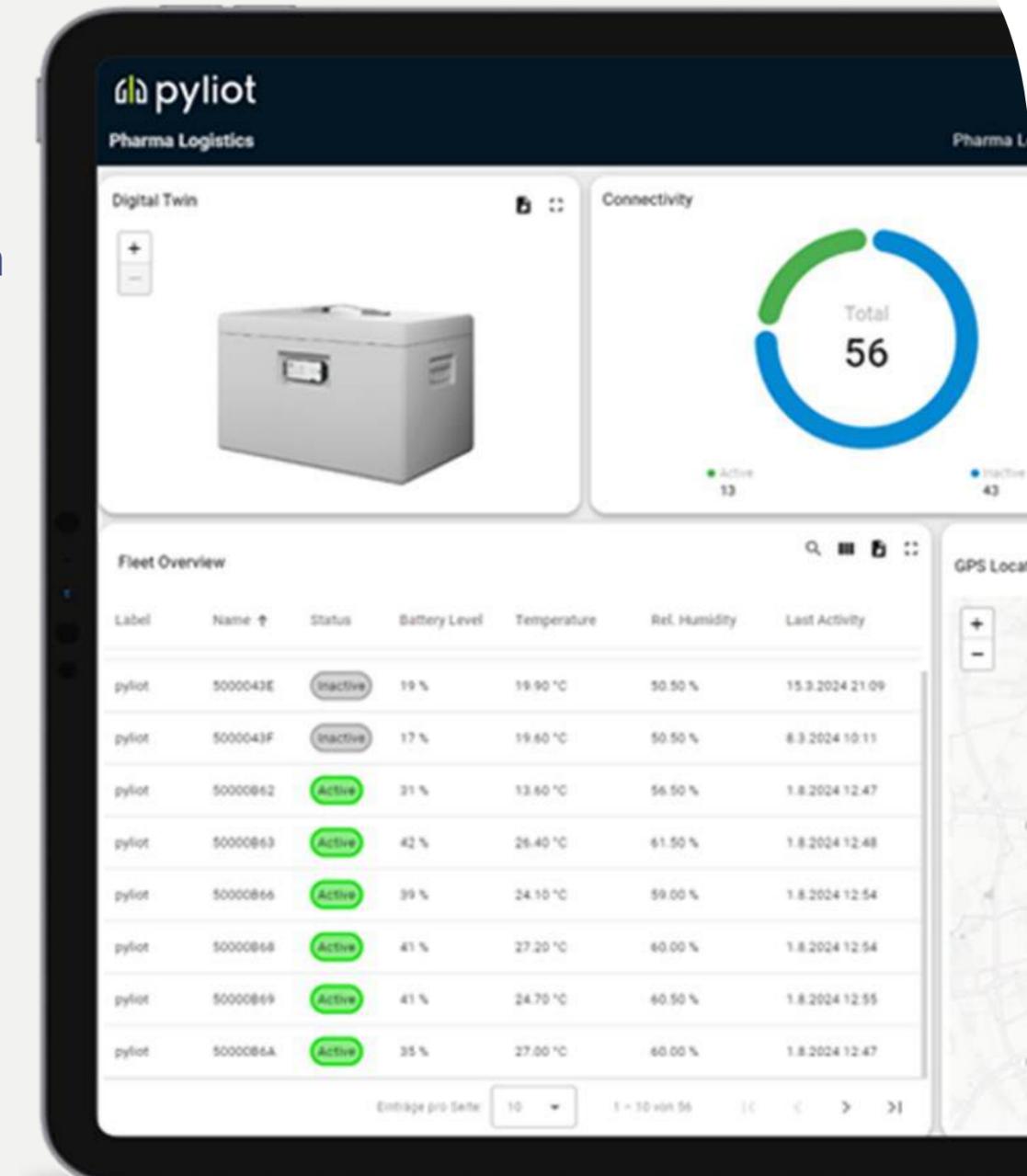
🔗 **E2E encrypting**

🛡 **GDPR compliant**

🌐 **Server in Germany**

</> **Desktop & mobile devices**

# Our IoT services

Ensuring dependable tracking of your asset pool

- ✓ User onboarding

- ✓ Support during system setup

- ✓ Remote diagnostics and firmware updates

- ✓ Performance monitoring of IoT systems

- ✓ Regular sensor recalibration

- ✓ Technical support for troubleshooting

# Contact Us

📞

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