

piSmart-Gateway Bluetooth

Item number: 911130615



IoT-Gateway with BT - for short distances and small amount of data

Overview

The piSmart-Gateway Bluetooth is ideal for indoor solutions and wherever there are short distances between objects, nodes or users. It serves as a Bluetooth interface to sensors and machines. The gateway bundles the transponder signals for seamless and centimeter-accurate positioning as well as secure access control or object tracking.

- › **BT** for a position accurate to the centimeter determination, tracking and indoor navigation with BT-beacons or user friendly access control via app
- › **Cloud-platform** pironex-iot.com for the visualization and analysis of the data

Possible Uses

As a module for sharing and asset tracking systems the piSmart-Gateway Bluetooth enables sensor data reading, positioning, access management as well as machine control.

- › Keyless Access / Smart Lock Access
- › Indoor Tracking
- › Asset Tracking

The piSmart-Gateway Bluetooth takes control of a lock for a keyless entry system to objects or vehicles. The gateway uses the bluetooth interface integrated in every smartphone for door opening or vehicles release. The highest possible encryption protects the mobile key of data transmission against eavesdropping and copying.

Thanks to short-range radio communication, the piSmart-Gateway Bluetooth can be used in extremely precise location of objects (e.g. goods, tools, industrial truck or mobile medical technology) in buildings or defined areas.

In the sensor data acquisition, the piSmart-Gateway Bluetooth is used as an interface to other gateways (such as the piSmart-Gateway-II-IoT) and serves as a component of a large sensor network.

The gateway was specially developed for environments with limited space and withstands shocks, vibrations and extreme temperature conditions.

Application-specific modifications are possible - the form factor, the interfaces and the performance can be customized.



The system is flexible and can be adapted or expanded if necessary (including form format, interface expansion, battery life, software modules).

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Tracking



E-Mobility

Technical specifications

Basics

Supply tension	5 - 60V DC
Processor	Arm® Cortex®-M3 32-bit
Battery	ca. 400 mAh
Dimensions	93 x 72,5 x 30 mm
Temperature	with external power supply: -40 - 60°C in battery operation: -10 - 40°C

Software

Update	via App + Bluetooth
Cloud	pironex-LoT.com with following modules: <ul style="list-style-type: none"> › Data Logging › Monitoring › Sharing › Remote Control › Predictive Maintenance › Anomaly Detection
App	native pironex-LoT-Apps for Android and iOS

Interfaces

Bluetooth	Bluetooth®5.1, Chip antenna
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Other properties

Sensors	<ul style="list-style-type: none"> › Humidity sensor › Accelerometer
Storage	<ul style="list-style-type: none"> › SRAM: 20 kB › Flash: 128 kByte › EEPROM: 2 MBit
Casing	<ul style="list-style-type: none"> › ABS or PA, aluminium › for screwing
Others	<ul style="list-style-type: none"> › Buzzer › 3 Status-LEDs › RTC › Hardware Watchdog