

OVERVIEW



Image is for representative purposes only, actual may differ

The PINIX TEP-6 is a Bluetooth Low Energy (BLE) 5.x beacon card holder with integrated RFID, designed for personnel identification, presence monitoring, and auto-attendance applications. Powered by an ultra-low-power Nordic nRF52 series chipset, it enables reliable BLE beacon transmission for proximity and presence detection within defined areas. The PINIX TEP-6 features a card slot compatible with CR80 IC cards and can be conveniently worn using a lanyard.

The PINIX TEP-6 can be integrated into a wide range of BLE-based proximity and location-aware applications. Its downloadable SDK and integration tools simplify integration with existing systems and enable customized solutions for personnel positioning, visitor management, presence detection, and indoor proximity applications.

BLUETOOTH RADIO

Type:

Bluetooth Low Energy 5.1 (AoA)

Advertisement:

- iBeacon
- Eddystone (UID & TLM)
- sBeacon (Sentrax Proprietary)

Advertisement Interval:

100ms to 10seconds

Frequency:

2.4GHz

Transmit Power:

0dBm, Adjustable

Antenna Type:

Chip antenna, omnidirectional

BATTERY

Battery type:

880mAh (4x CR2032), Replaceable

Battery Life:

(Advertisement Rate)	(Battery Life)
1000ms	2.9 Years
5000ms	5+ Years

SENSORS AND INTERFACES

RFID	
Motion sensing	3-axis accelerometer
Buzzer	Yes
LED	1 Red LED (Green optional)

CERTIFICATIONS

CE, FCC, RoHS

ENCLOSURE

Material:

PC+ABS

Color:

White

Weight:

36g

Dimensions:

98.0 mm (L) x 65.2 mm (W) x 8.6 mm (T)

Protection Class:

IP66

OPERATING ENVIRONMENT

Temperature Range	-20°C to 60°C
Operating Humidity (non-condensing)	0-95%

OPERATIONAL FEATURES

Firmware Update:

OTA-enabled for seamless updates

Power Saving mode:

Configurable active/sleep mode via OTA for optimized battery consumption

Smart Advertising:

Adaptive advertisement rates triggered by motion

SENTRAX DEVICE MANAGER (SDM)



The [Sentrax Device Manager \(SDM\)](#) app allows you to manage PINIX beacons. You can discover nearby beacons, check their battery levels, view their current settings, and modify them with a protected 4-digit settable PIN.

For security, beacons can only be configured within 15 minutes of a new battery installation or by manually activating configuration mode. Using advanced settings, the configuration window can be extended to up to three weeks.

APPLICATION AREAS

- Indoor positioning
- Vulnerable positioning
- Visitor Management
- Auto attendance

CAUTION



- Risk of explosion if battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions
- Glue should be used to close the enclosure if opened by use

RECYCLING

This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment.

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