

# Smart Badge 3



## Technical Specifications

# Smart Badge 3

### Physical

Height	4.52 in (115 mm)
Width	2.28 in (68 mm)
Depth	0.25 in (6.5 mm)
Weight	1.12 oz (32 grams)
Casing IP rating (protection)	IP65 (water-resistant)
Casing color	RAL 9003
Tamper-proof casing	No
Flammability rating	UL V0 - anti-flammable
IR front color	Black
Visual status indicator	RED and BLUE - LED Indicators
Product Identifier	QR code, MAC address, and Unique ID (printed)
Buttons	Two programmable buttons Flat, low-profile buttons to minimize accidental presses

### Environmental

Operating temperature	-40°F to +158°F (-40°C to +70°C)
Storage temperature	Recommended: ≤+86°F (≤+30°C) Absolute min/max: -40°F to +158°F (-40°C to +70°C)
Operating humidity	10%-95% RH (non-condensing)
Storage humidity	5%-95% RH (non-condensing)

### Battery Power

Battery life	Up to 4 years with IR and factory default settings
Shelf life	2 years
Number of batteries	1 cell
Total capacity	800 mAh
Replaceable	No
Power activation	Button long press (5s) to turn ON Turning OFF disabled by default

### Bluetooth Low Energy (LE)

Wireless standard	Bluetooth LE 5.4
Range	Up to 230 feet (70 meters) in open space
Frequency range	2.402GHz -2.480GHz
Sensitivity	-96 dBm Bluetooth LE 1 Mbps
Output power	-20 dBm to +4 dBm programmable levels
Antenna gain	6.289 dBi

### Sensors and Peripherals

IR (Infrared) sensor	IR photo-detector and preamplifier with advanced noise-suppression, enhanced sensitivity and wide angle view
Ambient Temperature sensor	Temperature range: -40°F to 185°F (-40°C to 85°C) Accuracy at +25°C: ± 2.5°C
Accelerometer	Ultra low-power high performance 3-axis accelerometer
Button sensor	BLE-burst feature upon button press for guaranteed signal delivery
Vibration motor (optional)*	Badge briefly vibrates when a button press event is successfully delivered to Kio Cloud
Buzzer (optional)*	Badge emits a brief audio sound when a button press event is successfully delivered to Kio Cloud

\*must be specified during order placement

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## Certifications

CE, FCC, WEEE, Reach & RoHS, IC (ISED), UKCA

## Configurable parameters

### Bluetooth LE parameters

Parameter	Default value	Configurable
BLE packets	Kontakt.io Location	Kontakt.io Telemetry, Secure Profile, iBeacon, Eddystone
BLE interval	1000ms	Yes
BLE name	Kontakt	Yes
iBeacon major, minor, UUID	Random	Yes; custom request
TX power	-4 dBm	-20 to +4 dBm

### IR parameter

Setting	Default value	Configurable
IR listening interval	4s	Yes, Warning: Receiver's interval should be set to 1s or multiples of 2s to properly receive IR signal. Changing this setting will heavily impact device battery lifetime.

### Sensor / Buttons configuration

Setting	Default value	Configurable
Turn OFF device with long button press	OFF	Yes; ON/OFF,
Button press	Single click Triple click - for Staff Safety	Yes; Single/Triple Click
Temperature	OFF	Yes; ON via Telemetry packet
Accelerometer raw data (x,y,z)	OFF	Yes; ON via Telemetry packet

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# Get in Touch

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