

Smart Badge 3 Mini



Technical Specifications

Smart Badge 3 Mini

Physical		
Height	2.28 in (58mm)	
Width	2.28 in (58mm)	
Depth	0.46 in (11.8 mm)	
Weight	1.1 oz (31.5 grams)	
Casing IP rating (protection)	IP65 (water-resistant)	
Tamper-proof casing	No	
Flammability rating	UL V0 anti-flammable	
IR front color	Black	
Visual status indicator	RGB, green	
Product Identifier	QR code, MAC address, Unique ID	
Button	One programmable button Low-profile, recessed button 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% to 95% RH, non-condensing	
Storage humidity	5% to 95% RH, non-condensing	
Storage shelf life	2 years	
Battery Power		
Battery life	Up to 4 years with IR and factory default settings	
Number of batteries	1 cell	
Total capacity	1900 mAh	
Replaceable	No	
Power activation	Button long press (5s) to turn on Turning off disabled by factory 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 to +4 dBm programmable levels	
Sensors and Peripherals		
IR (Infrared) receiver	IR photo-detector and preamplifier with advanced noise-suppression, enhanced sensitivity and wide angle view	
Ambient 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	BLE-burst feature upon button press for guaranteed signal delivery	
Vibration motor	Badge briefly vibrates when a button press event is emitted.	
Certifications		
FCC, CE, UKCA, Reach/TSCA, RoHS, WEEE		

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Configurable parameters

Bluetooth LE parameters

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

Button and sensor parameters

Parameter	Factory default*	Configurable
Turn off with long button press	Disabled	Yes; enable/disable
Button press event	Triple press for Staff Safe Single press for RTLS	Yes; single press/triple press
Temperature	Off	Yes; on/off via Telemetry packet
Accelerometer raw data (x,y,z)	Off	Yes; on/off via Telemetry packet
Vibration motor	On	No
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.

* Custom or use-case configurations can be requested at the time of order placement.