

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	IP65 (water-resistant)
	Buttons	Two programmable buttons
	Visual status indicator	Flat, low-profile buttons to minimize accidental presses
	Mounting	Red and Blue LED event activated, power on/off
	Product identifier	Wearable
Environmental	Operating temperature	QR code, MAC address, Unique ID
	Storage temperature	-40°F to +158°F (-40°C to +70°C)
	Operating humidity	Recommended: ≤+86°F (≤+30°C)
	Storage humidity	Absolute min/max: -40°F to +158°F (-40°C to +70°C)
	Storage shelf life	10% to 95% RH, non-condensing
		5% to 95% RH, non-condensing
Battery Power		2 years
	Battery life	Up to 4 years with IR and factory default configuration
	Battery type	CR2477 Lithium Coin Cell
	Number of batteries	1
	Total capacity	800 mAh
	Replaceable	No
Bluetooth Low Energy (LE)	Power activation	Button press; long press (5s) to turn on
		Turning off disabled by factory default
	Wireless standard	Bluetooth LE 5.4
	Range	Up to 230 feet (70 meters) in open space
	Receiver sensitivity	-96 dBm Bluetooth LE 1 Mbps
	Available transmission power level	-20 dBm to +4 dBm programmable levels
Sensors	Supported data packets	Kontakt.io Telemetry and Location, iBeacon, Eddystone
	IR (Infrared) receiver	IR photo-detector and preamplifier with advanced noise-suppression, enhanced sensitivity and wide angle view
	Ambient Temperature	Temperature range: -40°F to 185°F (-40°C to 85°C)
	Accelerometer	Accuracy at +25°C: ± 2.5°C
	Button	Ultra low-power high performance 3-axis accelerometer
	Vibration motor*	BLE-burst feature upon button press for guaranteed signal delivery
Certifications		Badge briefly vibrates when a button press event is successfully delivered to Kio Cloud
CE, FCC, WEEE, Reach & RoHS, IC (ISED), UKCA		

*Planned for future release via firmware update

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Configurable parameters

Bluetooth LE parameters

Parameter	Factory default*	Configurable
BLE packets	Kontakt.io Location, Telemetry	Yes; Kontakt.io Location, Telemetry, iBeacon, Eddystone
BLE interval	1000 ms	Yes
BLE name	Kontakt	Yes
iBeacon major, minor, UUID	Random	Yes; custom request
TX power	-4 dBm	-20 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 click	Yes; triple/single
Ambient Temperature sensor	Off	Yes; via Telemetry packet
Accelerometer raw data (x,y,z)	Off	Yes; via Telemetry packet
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 configuration can be requested at the time of order placement.

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Get in Touch

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