

BEEKs™ Badge Beacons

Personal Bluetooth Low-Energy (LE) beacons for location services and building occupancy

BEEKs™ Bluetooth® Low-Energy beacons are among the most advanced beacon badges in the industry. Worn as badges they can provide valuable insights on workplace utilization or help ensuring everyone is safely out of a building in emergency situations.



BEEKs Badge is a white Bluetooth® Low Energy Beacon that may be worn on a lanyard like any other badge. When combined with HID's end-to-end RTLS ecosystem, that includes BluFi™ Bluetooth LE to WiFi gateways and the Bluzone™ cloud services, the badge functions as tag to reveal the position of its wearer within a monitored area like an office, hospital or manufacturing zone.

Use cases include: Emergency mustering, building or room occupation, finding personnel, geofencing, any many more.

BEEKs can be centrally managed through the cloud and BluFi devices to transfer new messages, firmware updates and battery status checks remotely. Their unique design allows BEEKs to broadcast reliably even in densely populated WiFi environments. The button on the back is used for initial power on at first-time use and can serve as a battery level status indicator afterwards.

BEEKs Combo-Badges may be combined with existing passive RFID card badges to support established access control or payment systems. The card badges (with or without RFID) are glued to the BEEKs Combo-Badge by the integrated sticker and form a permanent bond between the card and the beacon part.

If a temporary combination of Bluetooth LE and printed card badge is desired, the BEEKs Badge Holder Industrial may be used. It is designed to hold standard ID cards with or without RFID and add real-time location capabilities temporarily. Versions to be used in potentially explosive environments are available as an option.

Finally, BEEKs Duress badges and fobs can raise alerts to call for help by the press of a button. These types of badges are described in a separate datasheet.

The extensible HID RTLS architecture allows organizations to scale deployments of standard beacon applications and extend to centralized management, real-time condition monitoring or location services in a later phase.



KEY BENEFITS:

- Flexible – Simultaneously supports iBeacon, Eddystone and sBeacon protocol for optimal application compatibility.*
- Multi-Purpose – Use as Bluetooth® LE Beacon or in combination with any passive access card credential.
- Rapid Implementation – Gather real-time location data for building occupancy, mustering, contact tracing, etc.

TECHNOLOGY HIGHLIGHTS:

- Bluetooth® LE 5.0 compliant beacons
- iBeacon (Apple), Eddystone (Google) and sBeacon HID supported simultaneously
- Location precision down to 6 ft (2 m)
- Central management possible
- Fast and easy roll-out
- Optional combination with any passive credential in ISO card format
- Optional duress button, raising alert when pressed. [See the BEEKs™ Duress Beacons Datasheet.](#)
- Usage options:
 - Personalized (locating individuals) or
 - Anonymously (utilization reports)
 - Contact tracing
 - Optionally support Location Services through Aruba Bluetooth LE enabled access-points



BEEKs™ Badge Beacons

APPLICATION AREAS:

Building Occupancy (requires Bluzone™ SAAS)

- Optimize room occupancy
- Comply to health & safety regulations
- Adjust environmental building conditions based on room utilization

Real-time location for assets (requires Bluzone™ SAAS)

- Quickly locate individuals or assets in an office or campus

- Position based alerting, heat-maps etc.
- Contact tracing, distancing, distress alerting (selected models)

Emergency Mustering (requires Bluzone™ SAAS)

- Quick and efficient counting of people at mustering points in emergency situations
- Central provisioning or monitoring via BluFi and Bluzone optionally possible

			
	BEEKs™ Badge	BEEKs™ Combo Badge	BEEKs™ Badge Holder Industrial
Model Number	EMBC20		
Configuration Types	Standard	Combo	Holder
Part Number	BVBBN4W-V2	BVBBN4WC-V2	P/N on request, multiple models available (clip type, Ex, protocol, chipset)
	RF SPECIFICATIONS		
Bluetooth® standard/Protocol	Bluetooth Low Energy 5.0		
Frequency Band	2400-2483.5 MHz		
Max Output power	Normal sBeacon -1.4 dBm, Duress +2.5 dBm		
Number of channels	40		
Modulation	GFSK		
Antenna/gain	integral PCB antenna, 0dBi		
Mode of operation	Half duplex		
	FEATURES		
Bluetooth® LE Application Supported	Eddystone, iBeacon, sBeacon		
	PHYSICAL		
Length x Width	2.48 in x 3.72 in x 0.19 in (63 x 94.8 x 5 mm)	Portrait: 3.79 in x 2.27 x 0.31 in (96.4 x 57.9 x 8 mm)	
Mounting Method	Lanyard		
Housing Material	Polycarbonate and ABS	2 Part Polycarbonate Case	
Color	White	Black	
Weight	0.93 oz (26.4 g)	1.19 oz (34 g)	
	BATTERY		
Type	3.0V LiMnO2 battery 700mAh	1300mAh Non replaceable prismatic LiMnO2 Battery*	
Life	up to 3 years	up to 6 years	
	CHEMICAL AND MECHANICAL RESISTANCE		
Water	IP64	IP68	
Withstands Exposure To	Water and UV resistant		
	THERMAL		
Storage	-4° to +140° F (-20° to +60° C)		-4° to +140° F (-20° to +60° C) / ATEX IECEx Version -4° to +131° F (-20° to +55° C)
Operating Temperature	-4° to +140° F (-20° to +60° C)		-4° to +140° F (-20° to +60° C) / ATEX IECEx Version -4° to +131° F (-20° to +55° C)
	OTHER		
Standards	FCC / IC / CE (All materials RoHS compliant) FCC / CE		FCC / CE / IC / ATEX - IECEx
Options	Green & Red LED, battery status indicator	Semi-finished product, requires separately purchased ISO/CR80 card (2.13" x 3.38" (54 mm x 86 mm)) to be glued on front-side (one-time)	Portrait - ATEX/IECEx. Semi-finished product, requires separately purchased ISO/ IEC 7810 ID-1 (CR-80) card badge
Box Size	10 pcs.		35 pcs
Warranty	1 year		



hidglobal.com

North America: +1 512 776 9000 | Toll Free: 1 800 237 7769
 Europe, Middle East, Africa: +44 1440 714 850
 Asia Pacific: +852 3160 9800 | Latin America: +52 (55) 9171-1108
For more global phone numbers click here

© 2025 HID Global Corporation/ASSA ABLOY AB. All rights reserved.
 2025-3-17-idd-iots-beeks-badge-beacons-ds-en PLT-03300
 Part of ASSA ABLOY

For more information, contact iotsales@hidglobal.com

