

BEEKs™ Badge Beacons



PERSONAL BLE BEACONS FOR LOCATION SERVICES AND WORKPLACE OPTIMIZATION

- **Flexible** – Simultaneously supports iBeacon, Eddystone and sBeacon protocol for optimal application compatibility.
- **Multi-Purpose** – Use as BLE Beacon or in combination with any passive access card credential.
- **Rapid Implementation** – Gather real-time location data for workplace optimization or mustering.

BEEKs™ Bluetooth Low-Energy (BLE) 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 Combo-Badges may be combined with existing passive RFID card badges to support established access control or payment systems. When combined with HID Global's end-to-end IoT ecosystem, that includes BluFi™ BLE to WiFi gateways and the Bluzone™ cloud services, BEEKs can be centrally managed through the cloud 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.

BEEKs BLE beacons are available in multiple form factors and sensor configurations for different applications like Real-time Location (RTLS) for assets, condition monitoring of motorized equipment or retail use cases to interact with smartphones in an Apple iBeacon or Google Eddystone compatible format.

The extensible 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.

TECHNOLOGY HIGHLIGHTS:

- Bluetooth Smart 4.1 compliant beacons
- iBeacon (Apple), Eddystone (Google) and sBeacon (Bluvision) supported simultaneously
- Up to 4 years battery life time
- 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
- Usage options:
 - Personalized (locating individuals) or
 - Anonymously (utilization reports)

APPLICATION AREAS:

Workplace Optimization (requires Bluzone™ cloud)

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



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

- Quickly locate individuals or assets in an office or campus
- Position based alerting, heat-maps etc.

Emergency Mustering Requires Bluzone™ Cloud

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

SPECIFICATIONS

	BEEKs	
	Badge	Combo Badge
		
Base Model Number	BVBBN4W	BVBBN4WC
ELECTRONIC		
Bluetooth communication	Bluetooth Low Energy 4.1, 2.4 GHz ISM	
BLE Protocols	Eddystone, iBeacon, sBeacon	
Sensitivity	-97dBm	
Transmission power	-40dBm to +5dBm (-3 m to -150 m line of sight range)	
Processor type	ARM Cortex M3 and M0	
Data rates	1Mbit/s / 2Mbit/s	
Memory	55KB Flash	
Sensors	Motion, 3 axis Accelerometer, step counter	
PHYSICAL		
Length x Width	2.14 in x 3.39 in x 0.10 in (54 x 86 x 2.5 mm)	2.19 in x 3.43 in x 0.15 in (55.84 x 87.30 x 3.94 mm)
Mounting Method	Clip	
Housing Material	Polycarbonate and ABS	
Color	White	
Weight	0.5 oz (14 g)	
BATTERY		
Type	Six CR2016, rated at 90 mAh each. Total 540mAh	
Life	up to 4 years	
CHEMICAL AND MECHANICAL RESISTANCE		
Water	IP67, 68° F (20° C), 3.3 ft (1 m) x 1 h	
Withstands Exposure To	Water and UV resistant	
THERMAL		
Storage	-22° to +170° F (-30° to +77° C)	
Operating Temperature	-22° to +170° F (-30° to +77° C)	
OTHER		
Standards	FCC / CE; BLE	
Options	Semi-finished product, requires separately purchased ISO card to be glued on front-side (one-time)	
Box Size	10 pcs.	
Warranty	2 years	



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