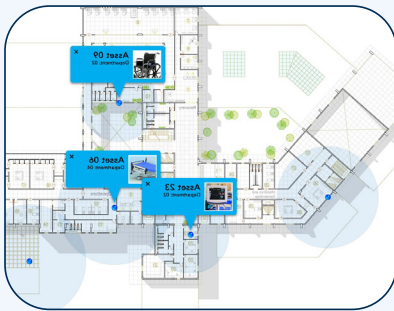


BEEKs™ Asset Beacons

BLE beacons for asset location services, wayfinding or retail applications

BEEKs™ Bluetooth Low-Energy (BLE) beacons are among the most advanced beacons in the industry. Being fully Apple iBeacon and Google Eddystone compatible, BEEKs beacons may be used for any standard beacon application that provides location based promotional or way-finding services to smartphone users.



When combined with HID Global's end-to-end IoT Services ecosystem, that includes BluFi™ BLE to WiFi gateways and the Bluzone™ cloud services, 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.

BEEKs asset beacons are intended for real time location (RTLS) of assets via Bluzone Cloud or retail- / way-finding applications. Software development kits (SDK) for iPhone or Android allow building Smartphone APPs that react on beacon presence e.g. to show location or route on

a map. BEEKs Beacons typically broadcast omni-directional. The BEEKs LR beacon features a high-gain directional antenna that is especially useful for wayfinding applications.

HID Global Location Services is an efficient real-time asset location (RTLS) platform leveraging BEEKs beacons to effectively pin down the locations of assets inside a warehouse, campus or manufacturing hall. Beacon location is determined by Bluzone through HID BluFi devices and/or Aruba BLE enabled access points.

BEEKs beacons are available in multiple form factors and sensor configurations for different applications like in form of badges for Workplace optimization or with sensors for condition monitoring of motorized equipment. Their extensible architecture allows organizations to scale deployment 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 – Used as promotional beacons, for way-finding or asset location**
- Rapid Implementation – Easy to apply anywhere with multi-year battery life.

TECHNOLOGY HIGHLIGHTS:

- Bluetooth low energy 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, equipment agnostic
- Optionally support Location Services through Aruba BLE enabled access-points

*BEEKs mini supports sBeacon protocol only.

**BEEKs mini used for Asset Location only.

***Way-finding and Retail advertisement use cases do not apply to the BEEKs Mini.

BEEKs™ Asset Beacons



APPLICATION AREAS:

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

- Indoor position tracking of assets (Tools, portable equipment, vehicles)
- Position based alerting, heat-maps etc.

Way-Finding Applications***

- BEEKs Beacons may be installed in well-known places in buildings, campuses or tunnels
- Specifically designed mobile device APPs can detect the beacons for real-time indoor positioning of the phone
- Can support location and way-finding

Retail advertisement

- BEEKs beacons may be used in iBeacon and/or Eddystone mode for advertising messages or location based services
- Quick and efficient counting of people at mustering points in emergency situations
- Central provisioning or monitoring via BluFi and Bluzone optionally possible

	BEEKs™ Lite	BEEKs™ Plus	BEEKs™ LR Lite	BEEKs™ Mini Asset Tag	BEEKs™ Mini Eyelet	BEEKs™ Mini Cup
Model Number	BEEKS001	BEEKS001	BEEKSLR001	EMBC20		
Configuration Types	BEEKS001-Lite Asset location and way-finding. VHB tape-mount.	BEEKS001-Plus Asset location and way-finding with longer battery life. VHB tape-mount	BEEKSLR001-Lite Asset location and way-finding beacon with high-gain directional antenna.	EMBC20 Small beacon for asset real-time location	Accessory for BEEKS Mini to affix via cable-tie - delivered without Beacon	Accessory for BEEKS Mini to affix via Adhesive Tape or Self-tapping Fasteners - delivered without Beacon
Part Number	BVBLN5W	BVPL09W	BVLRN9WL	BVBMN3B-EM20	BVBMN3B-EYELET	BVBEMCUP
RF SPECIFICATIONS						
Bluetooth standard/Protocol	Bluetooth Low Energy (BLE) 4.2			Bluetooth Low Energy 5.0		
Frequency Band	2400-2483.5 MHz					
Max Output power	-5.6 dBm e.i.r.p			1.4 dBm e.i.r.p		
Number of channels	40					
Modulation	GFSK					
Antenna/gain	integral PCB antenna, 0dBi					
Mode of operation	Half duplex					
FEATURES						
BLE Application Supported	Eddystone, iBeacon, sBeacon					
Processor type	ARM Cortex M3 and M0		ARM Cortex M3 and M0	ARC@ EM4		
Memory	55KB Flash			128KB FLASH		
PHYSICAL						
Length x Width	2.36 in x 0.83 x 0.98 in (60 x 21 x 25 mm)	2.41 x 1.46 in (61.3 x 37.2 mm)	2.48 in x 2.36 x 0.86 in (63 x 60 x 22 mm)	1.2 in x 0.4 in (30 x 10 mm)	1.5 in x 0.2 in (38.3 x 5.25 mm)	1.4 in x 0.5 in (34.6 x 13.5 mm)
Mounting Method	3M VHB adhesive sticker			3M VHB adhesive sticker Alternative : Plastic Eyelet	Clip	3M VHB adhesive sticker or Screw
Housing Material	Polycarbonate and ABS				Plastic	
Color	White				Blue	Transparent
Weight	1 oz (28 g)	2.7 oz (76 g)	3.3 oz (93.5 g)	0.24 oz (7 g)		
BATTERY						
Type	3.6V / 2600 mAh	3.6V / 7200 mAh		CR-2032 - 3V		
Lifetime (depending on utilization)	Up to 5 years	Up to 8 years	Up to 5 years	Up to 2 years -1.4 dBm every 4 sec.		
CHEMICAL AND MECHANICAL RESISTANCE						
Water	IP65		IP67			
Withstands Exposure To	Water and UV resistant					
THERMAL						
Storage	-13° to +170° F (-25° to +77° C)		-22° to +170° F (-30° to +77° C)	-4° to +140° F (-20° to +60° C)		
Operating Temperature	-13° to +170° F (-25° to +77° C)		-22° to +170° F (-30° to +77° C)	-4° to +140° F (-20° to +60° C)		
OTHER						
Standards	FCC / CE / JRF / IC		FCC / CE		FCC	
Options	Sensors: See BEEKs Industrial		Sensors: See BEEKs Industrial		Plastic Eyelet housing: BVBMN3B-EYELET to affix the beacon with a cable tie	
Box Size	10 pcs.				100 pcs.	
Warranty	1 year					



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