BEEKs™ Asset Beacons

BLE beacons for asset location services, wayfinding or retail applications

BEEKs™ Bluetooth Low-Energy (LE) 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's end-to-end IoT Services ecosystem, that includes BluFi™ Bluetooth LE 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 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 Bluetooth LE enabled access points.

BEEKs beacons are available in multiple form factors and sensor configurations for different applications like in the 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.

BEEKs Mini Ruggedized is a versatile asset tracking device and its waterproof, rugged case makes it robust enough for a host of industrial applications (apart from those where it may encounter direct heavy impact). The BEEKs Mini Ruggedized has a replaceable battery and comes in a number of different attachment options. BEEKs Ultra is a high-end rugged version with extra-long battery life and ATEX option.



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 Bluetooth LE enabled access-points
- Additionally available: Sense Asset+ Bluetooth LE / LoRaWAN Beacon for heavy duty indoor/outdoor operations (see separate datasheet)



*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)

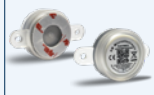
- Indoor position tracking of assets (Tools, portable equipment, vehicles)
- Position based alerting, heat-maps etc.

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™ LR Lite	BEEKs™ Mini Duress Pendant	BEEKs™ Mini Ruggedized	BEEKs™ Mini Asset Tag	BEEKs™ Ultra	BEEKs™ Mini Cup
							
Model Number	BEEKS001	BEEKSLR001	EMBC20				
Configuration Types	BEEKS001-Lite Asset location and way-finding. VHB tape-mount.	BEEKSLR001-Lite Asset location and way-finding beacon with high-gain directional antenna.	EMBC20 Small beacon for asset real-time location			A rugged IK09 industrial location device, featuring bright LED for picking applications with a long battery life and easily replaceable batteries.	Accessory for BEEKS Mini to affix via Adhesive Tape or Self-tapping Fastners - delivered without Beacon
Part Number	BVBLN5W	BVLRN9WL	BVBMN3B-ALRM	BVBMN3B-LAN	BVBMN3B-EM20	BVBU - BEEKs Ultra CP19831 - BEEKs Ultra Ex (No Bright LED)	BVBEMCUP
	RF SPECIFICATIONS						
Bluetooth standard/ Protocol	Bluetooth Low Energy (LE) 4.2			Bluetooth Low Energy 5.0		Bluetooth Low Energy 5.1	
Frequency Band	2400-2483.5 MHz						
Max Output power	-5.6 dBM e.i.r.p		1.4 dBM e.i.r.p			+4 dBm	
Number of channels	40						
Modulation	GFSK						
Antenna/gain	integral PCB antenna, 0dBi						
	FEATURES						
Bluetooth LE Application Supported	Eddystone, iBeacon, sBeacon		sBeacon			Device to device, Eddystone, iBeacon, sBeacon	
	PHYSICAL						
Length × Width	2.36 in × 0.83 x 0.98 in (60 × 21 x 25 mm)	2.48 in × 2.36 x 0.86 in (63 × 60 x 22 mm)	1.28 in × 0.39 in (32.5 mm × 10 mm)	1.88 in × 1.45 x .51 in (47.9 × 36.9 x 13mm	1.2 in x 0.4 in (30 x 10 mm)	6.30 in × 2.72 x 1.25 in (160.1 × 69.2 x 32 mm)	1.4 in x 0.5 in (34.6 x 13.5 mm)
Mounting Method	3M VHB adhesive sticker		Clip	Lanyard, Rivet or 3 in 1	3M VHB adhesive sticker Alternative : Plastic Eyelet	Screws, Rivets, Cable ties, or Straps	3M VHB adhesive sticker or Screw
Housing Material	Polycarbonate and ABS						
Color	White			Black	White	Grey	Transparent
Weight	1 oz (28 g)	3.3 oz (93.5 g)	0.5 oz (14 g)	0.6 oz (19 g)	0.24 oz (7 g)	7.8 oz (222 g)	
	BATTERY						
Type	3.6V / 2600 mAh	3.6V / 7200 mAh	CR-2032 - 3V			2 x ER14505H 3.6V, 2.700 mAh (non Ex version)	
Lifetime (depending on utilization)	Up to 5 years	Up to 5 years	Up to 2 years -1.4 dBm every 4 sec.			Up to 15 years	
	CHEMICAL AND MECHANICAL RESISTANCE						
Water, Impact	IP65	IP67	IP64	IP68	IP64	IP68, IK09	
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 / CE / IC	FCC / CE	FCC	FCC / CE / IC	
Options	Sensors: See BEEKs Industrial	Sensors: See BEEKs Industrial	Panic Button/Alarm	Three-in-one PN: BVBMN3B-3N1 / Rivet Flanges PN: BVBMN3B-RVT	Plastic Eyelet housing: BVBMN3B-EYELET to affix the beacon with a cable tie	ATEX	
Box Size	10 pcs.			26 pcs.	50 pcs.	5 pcs.	100 pcs.
Warranty	1 year						

HID

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For more global phone numbers click here

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