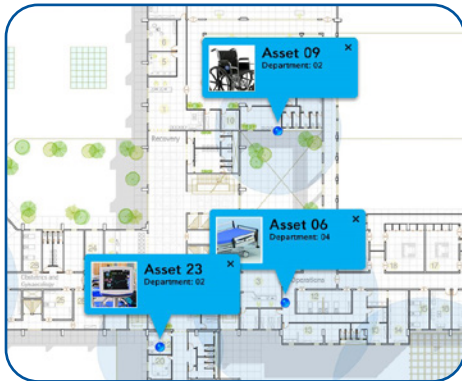**HID**®

BEEKs™ Asset Beacons

BLE BEACONS FOR ASSET LOCATION SERVICES, WAYFINDING OR RETAIL APPLICATIONS

- **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 Smart 4.2 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, equipment agnostic

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 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 primarily meant 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.

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.

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.

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

SPECIFICATIONS

	BEEKs™ Lite	BEEKs™ Plus	BEEKs™ Mini
Model Number	BEEKS001	BEEKS001	BEEKS002
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	BEEKS002 Small beacon for asset real-time location
Part Number	BVBLN5W	BVPL09W	BVBMN3B
RF SPECIFICATIONS			
Bluetooth standard/Protocol	Bluetooth Low Energy (BLE) 4.2		
Frequency Band	2400-2483.5 MHz		
Max Output power	-5.6 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		
Memory	55KB Flash		
Sensors	Motion (for power saving)		
PHYSICAL			
Length × Width	2.36 in × 0.83 x 0.98 in (60 × 21 x 25 mm)	2.41 x 1.46 in (61.3 x 37.2 mm)	1.3 in x 0.3 in (34.2 x 8.35 mm)
Mounting Method	3M VHB adhesive sticker		3M VHB adhesive sticker (with metal foil in tamper version)
Housing Material	Polycarbonate and ABS		
Color	White		Black
Weight	1 oz (28 g)	2.7 oz (76 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 2 years (ultra low power template, -4 dBm every 4 sec.)
CHEMICAL AND MECHANICAL RESISTANCE			
Water	IP65	IP65	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 / JRF / IC	FCC / CE	
Options	Sensors: See BEEKs Industrial		
Box Size	10 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

Part of ASSA ABLOY

For more information, contact iotsales@hidglobal.com

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