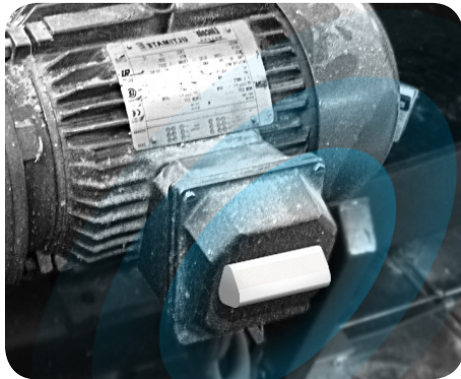


# BEEKs™ BLE Beacons



## TECHNOLOGY HIGHLIGHTS:

- Bluetooth Smart 4.1 compliant beacons
- iBeacon (Apple), Eddystone (Google) and sBeacon (Bluvision) supported simultaneously
- Highly accurate environmental sensors (some models)
- Up to 5 years battery life time
- Location precision down to 3 ft (1 m)
- Central management possible
- Fast and easy roll-out, equipment agnostic

## ADVANCED BLE BEACONS WITH SENSOR TECHNOLOGY AND MULTI-PROTOCOL SUPPORT

- **Flexible** – Simultaneously supports iBeacon, Eddystone and sBeacon protocol for optimal application compatibility.
- **Multi-Purpose** – Used as promotional beacons or industrial sensor network.
- **Rapid Implementation** – Gather real-time data on item location and equipment condition with minimal infrastructure.

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 services to smartphone users.

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 are not limited to standard beacon applications. HID Condition Monitoring Services, enabled by Bluvision, include a range of sensor beacons for capturing motion, temperature, light, vibration and magnetic field. This sensor data is sent via BluFi gateways to the Bluzone Cloud to perform operational analysis for motorized equipment performance, capacity load, door open

status etc. Alerts according to policy are received via e-mail or web service.

Equipment agnostic, 3-axis vibration and temperature trend monitoring provides predictive analysis when a motor or bearing is going to fail-to proactively replace parts when needed to prevent costly unplanned downtime. Optional on-board memory of up to 512 KB allows recording of condition status e.g. for cold chain applications.

HID Global Location Services, enabled by Bluvision, 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 and retro-fit scenarios. Their extensible architecture allow 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:

### Condition Monitoring (requires Bluzone cloud)

- Wireless status info on motorized equipment (on/off)
- Failure prediction, based on vibration or temperature trends
- Reporting of equipment duty cycles
- Cold chain applications




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

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

### Retail advertisement

- BEEKs beacons may be used in iBeacon and/or Eddystone mode for advertising messages or location based services
- Central provisioning or monitoring via BluFi and Bluzone optionally possible

## SPECIFICATIONS

	BEEKs		
	Lite	Industrial	Badge
			
Base Model Number	BVBLN5W-IDT	BVBI45W-IDT (White) BVBI45G-IDT (Grey)	BVBBN4W-IDT
ELECTRONIC			
Bluetooth communication	Bluetooth Low Energy 4.1 (BLE), 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	Motion, Light, Vibration (3-axis, up to 800 hz), Magnetometer, Temperature -13° to +149° F (-25° to +65° C)	Motion
PHYSICAL			
Length x Width	2.36 in x 0.85 in (60 x 21 mm)		2.14 in x 3.39 in x 0.08 in (54 x 86 x 2 mm)
Mounting Method	Adhesive		Clip
Housing Material	Polycarbonate and ABS		
Color	White	White or Grey	White
Weight	1 oz (28 g)		0.5 oz (14 g)
BATTERY			
Type	3.6V / 2600 mAh - Primary Lithium		CR2016 Rated At 80 mAh each (x3)
Life	up to 5 years		up to 2 years
ENVIRONMENTAL REQUIREMENTS			
Storage / Operating Temperature	-22° to +154° F (-30° to +68° C)		-13° to +149° F (-25° to +65° C)
Withstands Exposure to	Water Resistant and UV Resistant		
Water	IP67, 68° F (20° C), 3.3 ft (1 m) x 1 h		
OTHER			
Standards	FCC / CE / JRF / IC		FCC / CE
Options		512KB Flash memory	Sensors for temperature, light, magnetometer, vibration
Box Size	1 pcs.		
Warranty	2 years		

