

Bluetooth Low Energy (LE):

Bluetooth Smart - 2.4 GHz

Advanced Bluetooth Low Energy (LE) beacons with sensor technology and multi-protocol support

BEEKs™ Bluetooth 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 services to smartphone users. When combined with HID Global'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 to transfer messages, firmware updates and status information remotely. Their unique design allows BEEKs to broadcast reliably even in densely populated WiFi environments.

	<div>Beacons</div>												<div>Gateways</div>			
																
Product family	BEEKs™												Sense	BluFi™		
Sub-family	Plus	Lite	LR	Mini	Mini Ruggedized	CM v2 / Industrial v2	LR Temperature	Badge	Duress Badge Holder	Keyfob	Wristband	Asset+	AC (US/EU/UK/AU)	DC (Battery)	DC (Plenum)	
Description	Bluetooth LE beacon without sensors to be used for Proximity Marketing, way-finding and/or real-time location (RTLS).		BEEKs LR beacon features a high-gain directional antenna that is especially useful for wayfinding applications	Tiny Bluetooth LE beacon to support real-time location (RTLS).	Versatile asset tracking device with a waterproof, rugged case that makes it robust enough for a host of industrial applications.	Rugged Bluetooth LE condition monitoring beacon with embedded sensors to measure temperature and vibration of motorized equipment in manufacturing, coolers, escalators etc.		Beacon badge that can be optionally combined with passive RFID for access control. Typically used for optimizing office utilization or mustering.	Bluetooth LE badge holder, into which a horizontally printed (RFID) ISO card can be inserted. Includes call button on the back that can raise an alert in the Bluzone console when in vicinity of a connected BluFi.	BEEKs Keyfob provides an audible alert in addition to the LED and may be used either for duress applications or for physical distancing “aware” applications.	Bluetooth LE beacon that is worn around the wrist, like a watch to identify patients and supports real-time location applications.	Highly ruggedized, industrial IOT asset tracking device offers effortless indoor and outdoor tracking of assets with a multiyear replaceable battery for superior ROI and performance.	BluFi acts as gateway between Bluetooth LE beacons and existing WiFi networks to enable cloud based remote management, location and beacon data collection. This model plugs into any standard A/C outlet and features an omnidirectional antenna.	BluFi acts as gateway between Bluetooth LE beacons and existing WiFi networks to enable cloud based remote management, location and beacon data collection. This model features a rechargeable battery and directional antenna. Optional outdoor housing with solar panel available.	BluFi DC Plenum is a flame resistant, low-voltage DC powered version that is designed to be installed on walls, ceilings or in the plenum, with an optional mounting kit.	
Protocol	Bluetooth Low Energy 4.2			Bluetooth Low Energy 5.0		Bluetooth Low Energy 4.2					Bluetooth Low Energy 5.0	LoRaWAN 1.0.4, LoRa,Bluetooth, NFC, GNSS	Bluetooth Low Energy 4.2 / WiFi: 802.11 b/g/n			
Frequency Band	2400-2483.5 MHz											LoRa Frequency Range: 866-868 MHz (EU) 902-928 MHz (US)	2400-2483.5 MHz (40 channels)			
Processor Type	ARM Cortex M3 and ARM Cortex M0		ARM Cortex M3	ARC® EM4		ARM Cortex M3 and ARM Cortex M0					ARC® EM4 32 bit 24 MHz		ARM Cortex M4 and ARM Cortex M3			
Memory	55KB Flash			128KB Flash		55KB Flash				128 KB Flash	128KB		256KB Flash (100KB free for custom applications)			
Bluetooth LE Application	Eddystone, iBeacon, sBeacon										sBeacon		Eddystone, iBeacon, sBeacon, WiFi			
Battery Life	Up to 8 year battery life	Up to 5 year battery life		Up to 2 year battery life		Up to 3 year battery life		Up to 4 year battery life		up to 4 years (Duress use), up to 8 months (Aware use)	RTLS mode (Asset Tracking), advertisement every 500ms: 30 days	Up to 3 years battery life	100-240V AC, 50/60 Hz	up to 24h	N/A	
Dimensions	2.41 x 1.46 in (61.3 x 37.2 mm)	2.36 in x 0.83 x 0.98 in (60 x 21 x 25 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)	1.88 in x 1.45 x .51 in (47.9 x 36.9 x 13mm)	2.36 in x 0.83 x 0.98 in (60 x 21 x 25 mm)	2.48 x 2.36 x 0.86 in (63 x 60 x 22 mm)	2.14 x 3.39 in (54 x 86 mm)	2.5 in x 3.5 in x 0.19 in (64 mm x 89 mm x 5 mm)	2.79 in x 1.67 in x 0.57 in (71 mm x 43 mm x 15 mm)	1.5 in x 11.8 in x 0.4 in (39 x 300 x 10 mm)	5.32 in x 2.72 x 1.29 in (135.3 x 69 x 33 mm)	2 x 1.5 x 1.5 in (50 x 38 x 38 mm)	3.4 X 3.2 X 1.2 in (86.1 X 82.2 X 31.8 mm)		
Affixation	3M VHB adhesive sticker or Epoxy glue				Lanyard, Rivet or 3 in 1			Clip				Rivet Attachment, Mechanical (std)	A/C power plug	Micro USB	USB Type A	
Weight	2.7 oz (76 g)	1 oz (28 g)	3.3 oz (93.5 g)	0.24 oz (7 g)	0.6 oz (19 g)	max. 1.37 oz (39 g)	3.3 oz (93.5 g)	0.5 oz (14 g)	0.85 oz (24 g)	1.3 oz (37 g)	0.3 oz (9 g)	7.8 oz (222 g)	1.7 oz (48 g)	9.3 oz (264 gr)	4.13 oz (117 g)	
Water	IP65		IP67		IP68	IP65 and IP67		IP67		IP65		IP67	IP68			
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)		-13° F to +185° F (-25° C to +85° C) Intrinsically Safe Version: -13° to +140° F (-25° to +60° C)	-13° to +170° F (-25° to +77° C)	-4°F to +138°F (-20°C to +59°C)	-22° to +158° F (-30° to +70° C)		-4° to +140° F (-20° to +60° C)		-13° to +149° F (-25° to +65° C)	-4° to +158° F (-20° to +70° C)		
Withstands Exposure To	Water and UV Resistant										Water resistant	Salt Mist			Flame UL-2043	
Compliant with	FCC / CE	FCC / CE / JRF / IC	FCC / CE	FCC	FCC / CE	FCC / CE / IC / UKCA / RCM ATEX / IECEx (Intrinsically Safe version only)	FCC / CE	FCC / CE	FCC / CE / IC / MIC		FCC	FCC/CE/IEC 62368-1 / EMC / SAR	FCC/CE/UL/FRE; Bluetooth LE; Wifi 2.4 GHz	FCC/CE; Bluetooth LE; Wifi 2.4 GHz		

*Battery life is dependent on device configuration, such as broadcast power and transmission rate. This estimate is based upon typical beacon configuration and use-cases. This estimate is subject to increase or decrease based on specific usage needs.

