

# BLE: Bluetooth Smart - 2.4 GHz



BEACONS						GATEWAYS			
Product Family	BEEKs™					BluFi™			
Sub-family	Plus	Lite	CM v2/Industrial	Mini / Mini Tamper	Badge	Duress Badge	AC (US/EU/UK/AU)	DC (Battery)	DC (Plenum)
Description	BLE beacon without sensors to be used for Proximity Marketing, way-finding and/or real-time location (RTLS).		Rugged BLE condition monitoring beacon with embedded sensors to measure temperature and vibration of motorized equipment in manufacturing, coolers, escalators etc.	Tiny BLE beacon with or without tamper evidence functionality that raises an alert when beacon is removed. Supports real-time location (RTLS).	Beacon badge that can be optionally combined with passive RFID card credentials for access control. Typically used for workplace optimization or emergency mustering.	BLE 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.	BluFi acts as gateway between BLE 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 BLE 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.
Radio Type	Bluetooth Low Energy 4.1, 2.4 GHz ISM					Bluetooth Low Energy 4.1, Wifi 802.11 b/g/n			
Bluetooth Sensitivity	-97dBm					-98dBm			
Processor Type	ARM Cortex M3 and ARM Cortex M0					ARM Cortex M4 and ARM Cortex M3			
Memory	55KB Flash (512 KB optional)					256KB Flash (100KB free for custom applications)			
Protocols	Eddystone, iBeacon, sBeacon					Eddystone, iBeacon, sBeacon, WiFi			
Power	Up to 8 year battery life	Up to 5 year battery life	Up to 3 year battery life		Up to 4 year battery life		100-240 VAC, 50/60 Hz	USB charger, up to 24h battery life	N/A
Dimensions	2.41 x 1.46 in (61.3 x 37.2 mm)	2.36 x 0.85 in (60 x 21 mm)		1.3 x 0.3 in (34.2 x 8.35 x 2.5 mm)	2.14 x 3.39 x 0.10 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 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		Epoxy glue	3M VHB adhesive sticker with metal foil	Clip		A/C power plug	Micro USB	USB Type A
Weight	2.7 oz (76 g)	1 oz (28 g)	1.39 oz (37 g)	0.24 oz (7 g)	0.5 oz (14 g)	0.85 oz (24 g)	1.7 oz (48 g)	9.3 oz (264 gr)	4.13 oz (117 g)
Water resistance	IP67					IP67			
Operating temperature	-22° to +170° F (-30° to +77° C)		-13° F to +185° F (-25° C to +85° C)	-13° to +170° F (-25° to +77° C)	-4° to +170° F (-20° to +77° 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, Flame UL-2043			
Compliant with	FCC / CE		FCC / CE / JRF / IC		FCC / CE		FCC/CE/UL/FRE; BLE; Wifi 2.4 GHz	FCC/CE; BLE; Wifi 2.4 GHz	

## Advanced BLE Beacons with sensor technology and multi-protocol support

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 Services ecosystem, that includes BluFi™ BLE 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.

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