HID®

BluFi™ BLE – WiFi Gateways

BLUETOOTH SMART TO WIFI GATEWAYS FOR BEACON MANGEMENT

- **Cloud Enabled** – Bi-directional BLE to WiFi gateway for remote management
- **Smart** – Accurately measures distance to BLE Beacons for RTLS
- **Rapid Implementation** – Simply install at any conventional power plug

BluFi™ are Bluetooth Low-Energy (BLE) to Wifi gateways that relay signals between BEEKs Beacons and the cloud of HID Global's end-to-end IoT ecosystem. In combination with the corresponding Bluzone™ cloud services, BluFi enable BEEKs™ beacons to be centrally managed through the cloud, to transfer new messages, firmware updates, sensor data and battery status checks remotely. Their unique design allows BluFi devices and BEEKs beacons to broadcast reliably even in densely populated WiFi environments.

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

HID Global Location Services, enabled by Bluvision, is an efficient real-time asset location and item management platform leveraging BEEKs beacons to effectively pin down the locations of assets inside a warehouse, campus or manufacturing hall.

The calculation of the BEEKs location is based on received signal strength and other factors measured by BluFi devices.

BluFi AC devices are available in four major international power plug versions and can be installed in any standard power outlet on a wall or ceiling. Battery powered BluFi DC can be installed in any location and is ideal for temporary setups. BluFi DC is also available in a weather resistant box with Solar panel power for outdoor applications. BluFi DC Plenum is a flame resistant, low-voltage DC powered version that is designed to be installed with an optional mounting kit on walls, ceilings or in the plenum. DC power connection can be done via USB or direct wires.

BluFi devices make it easy and cost efficient to cover an area with BLE to internet connectivity to take advantage of centralized management, real-time condition monitoring or location services with a fraction of the effort required by alternative technologies.

TECHNOLOGY HIGHLIGHTS:

- Bluetooth Smart 4.1 and WiFi compliant
- iBeacon (Apple), Eddystone (Google) and sBeacon (Bluvision) supported
- Models for any standard A/C, DC or USB power outlet
- Battery backed BluFi DC for temporary installations
- Outdoor option with solar panel power e.g. for parking lots
- Central management possible

BluFi DC Plenum
with optional mounting kit

APPLICATION AREAS:
Condition Monitoring
- Wireless status info on motorized equipment (on/off)
- Fault detection based on vibration or temperature trends
- Reporting of equipment duty cycles
- Cold chain applications

Real-time location
- Indoor position tracking of assets (Tools, portable equipment, vehicles)
- Position based alerting, heat-maps etc.
- Workplace optimization
- Emergency mustering

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 possible
- Optional counting phones in vicinity

SPECIFICATIONS

	BluFi™ AC				BluFi™ DC	BluFi™ DC Plenum
Base Model Number	BVBFUS (US)	BVBFEU (EU)	BVBFUK (UK)	BVBFAU (AU)	BVBFBUS (US), BVBFBEU (EU), BVBFBUK (UK), BVBFBAU (AU)	BVBFLVPW
ELECTRONIC						
AC Input	100-240 VAC, 50/60 Hz				N/A	
AC Plugs / Charge Plug	NEMA 1-15 ungrounded (Type A)	CEE 7/16 "Europlug" (Type C)	BS 1363 (Type G)	AS/NZS 3112 (Type I ungrounded)	Micro USB or PoE with external adapter. USB charger provided according to P/N.	USB Type A
Bluetooth Type	Bluetooth Low Energy 4.1					
Bluetooth Sensitivity	-98dBm					
WiFi Type	802.11 b/g/n					
WiFi Sensitivity	-97.5dBm @ 1DSSS / -88.5dBm @ 11 CCK					
WiFi Frequency	2.4 Ghz with coexistence built-in with Bluetooth					
Processor Type	ARM Cortex M4 and ARM Cortex M3					
Memory	256KB Flash (100KB free for custom applications)					
Power Consumption	200mA when TX; 20mA on sleep					9mA when TX; 1.2 µA on sleep
PHYSICAL						
Length × Width	2 × 1.5 x 1.5 in (50 × 38 x 38 mm)				3.4 x 3.2 x 1.2 in (86.1 x 82.2 x 31.8 mm)	
Housing Material	Polycarbonate and ABS					
Color	White				Gray	White
Weight	1.3 oz (37 g)	1.6 oz (46 g)	1.7 oz (48 g)	1.6 oz (46 g)	9.3 oz (264 g)	4.13 oz (117 g)
BATTERY						
Type	N/A				5V / 10.5Ah - Lithium Ion Rechargeable	N/A
Life	N/A				up to 24h	N/A
CLOUD						
Type	Bluzone Cloud - Cloud realtime managed					
Data Output to Cloud	0.1 to 1Mbit Up data					
CHEMICAL AND MECHANICAL RESISTANCE						
Water					IP67, 68° F (20° C), 3.3 ft (1 m) x 1 h	
THERMAL						
Storage	-13° to +149° F (-25° to +65° C)				-4° to +158° F (-20° to +70° C)	
Operating Temperature	-13° to +149° F (-25° to +65° C)				-4° to +158° F (-20° to +70° C)	
OTHER						
Standards	FCC/CE/UL/FRE; BLE; Wifi 2.4 GHz				FCC/CE; BLE; Wifi 2.4 GHz	
Flame Resistance						UL-2043
Options	Software configurable				Outdoor housing with Solar Panel	Optional wall or ceiling / plenum mounting kit - P/N: BVBFB2
Box Size	1 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 5081 1670

![bluvision part of HID Global] CE

An ASSA ABLOY Group brand

ASSA ABLOY