

# PoE BLE Gateway and Beacon

**BLE Proximity Sensing and Beaconing Unit** 



Wireless Gateway Units (WGU) are designed to listen for Blue Tooth Low Energy (BLE) beacons and transmit the observed beacons data to the AiRISTA Unified Vision Server (UVS) and/or sofia® for proximity detection and location calculation over Ethernet connection.

As a Wireless Beaconing Unit (WBU), it functions as a standard BLE beacon supporting iBeacon, Eddystone and AiRISTA's proprietary protocols.

## **Industry Support**

management (WBU).

Supported BLE beacon protocols include iBeacon, Eddystone and AiRISTA's proprietary beacons. PSUs are managed by UVS and can be monitored for mission critical applications.

# **Application**

PSUs functioning as a WGU are ideal for proximity sensing (choke point) applications where real-time detection of BLE tags and/or beaconing devices is required. WBUs can be used for any application requiring BLE standard beacons. Utilizing AiRISTA's UVS Location Engine, PSUs can identify the location of the tag/device. Packets transmitted from a series of PSUs can be correlated by the UVS Location Engine for highly accurate location determination when applying business rules to detect events, trigger actions, and automate processes and workflows.

### **Benefits**

- Choke point detection of people and things
- Sensitivity levels programable via software
- Separate mounting bracket on swivel
- Ideal for alerts and process workflows
- Augment existing BLE infrastructure for higher location accuracy
- Automatic failover for server routing

#### **Features**

- Connector for external antenna options
- Whip antenna for standard configurations
- Directional high-gain antenna available for longer distances
- Power over Ethernet (PoE)
   provides power and network
   interface

# Technical Specifications

# PoE BLE Gateway and Beacon

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#### **BLE Radio**

Power Consumption:

RX BLE: 5 mA

TX BLE at OdBm: 6 mA

Firmware configurable transmit power: -6dBm to +4dBm

Operating Current TX & RX Disable: 10uA Cortex M3

Maximum Output Power: +4dBm Default Output Power: 0dBm

RX Sensitivity -94 dB

#### PoE Ethernet Interface

Compatible with IEEE 802.3af
Supports Static and Dynamic IP address
Supports Backup Server IP Address List
Over LAN configuration
Built-in Http based management interface

#### **Electrical Interface**

Certification: FCC and CE Current Consumption: 1A

#### **Antenna Specifications**

Internal Antenna Models: internal Omni-directional External Antenna Models: Directional or Omni-

Directional Antenna

#### **Environment**

Operating Temperature: 22 to 185 °F / -30 to 85 °C Storage Temperature: -22 to 140 °F / -30 to 85 °C \*outdoor installation requires NEMA 4X enclosures

#### Typical Operating Range (version 3.x.x)

Device in TX mode (WBU) with external antenna

**Line of Sight:** 

BLE +4dBM 1MBps: ~150ft/50m

**Obstructions:** 

BLE +4dBM 1MBps: ~55ft/15m

Device in TX mode (WBU) with internal antenna

**Line of Sight:** 

BLE +4dBM 1MBps: ~55ft/18m

**Obstructions:** 

BLE +4dBM 1MBps: ~35ft/12m

#### Physical

Dimensions:

6.63 x 4.68 x 1.63 in / 168.40 x 118.87 x 41.40 mm.

Weight: 0.64 lbs

#### Part Number

WGU w/ Internal Antenna Model: WGU.WM.B.PoE WGU External Antenna Model: WGU.WM.B.PoE.EANT WBU w/ Internal Antenna Model: WBU.WM.B.PoE WBU External Antenna Model: WBU.WM.B.PoE.EANT

#### Accessories

Swivel Wall Mount: PSU.MB

Directional Antenna: PSU.ANT.5in.DIR.2.4GHz Omni-Directional Antenna: ANT.OMNI.WHIP.2.4GHz

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