

# SPECIFICATION SHEET

BLUFI™  
 VER 1.3



## HARDWARE SPECIFICATION

|                            |  |
|----------------------------|--|
| AC Input                   | 100-240 VAC, 50/60 Hz  |
| AC Plugs                   | US type: NEMA 1-15 ungrounded (Type A)<br>European: CEE 7/16 "Europlug" (Type C)<br>British Standard BS 1363 (Type G)<br>China/Australia: AS/NZS 3112 (Type I ungrounded)                    |
| Size                       | Ultra Small: 2" x 1.5" x 1.5" (50mm x 38mm x 38mm)   |
| Temperature Range          | -25°C to 65°C  |
| Bluetooth Type             | Bluetooth Low Energy 4.1   |
| Bluetooth Sensitivity      | -98dBm   |
| Bluetooth Max Power Output | +5dBm  |
| Bluetooth Antenna          | -3dBm Single Antenna, Omni Directional   |
| Frequency Supported        | <ul style="list-style-type: none"> <li>• 2.4 Ghz ISM</li> <li>• Bluetooth LE channels: 1-40 &amp; Adv Ch: 37;38;39</li> <li>• Non Bluetooth Channels: SDR from 2400Mhz to 2500Mhz</li> </ul> |
| Bluetooth Data Rate        | 1Mbit/s (2Mbit/s)  |
| Bluetooth Security         | 128 bit AES  |
| WiFi Type                  | 802.11 b/g/n   |

|                                  |  |
|----------------------------------|--|
| <b>WiFi Security</b>             | WPA2 Personal and Enterprise Security            |
| <b>WiFi TX Power</b>             | 20.5dBm @ 1DSSS and 11 CCK<br>15.0dBm @ 54 OFDM  |
| <b>WiFi RX Sensitivity</b>       | -97.5dBm @ 1DSSS<br>-88.5dBm @ 11 CCK            |
| <b>WiFi Frequency</b>            | 2.4 Ghz with coexistence built-in with Bluetooth |
| <b>WiFi Antenna</b>              | 0dBm Single Antenna, Omni Directional            |
| <b>Power Consumption</b>         | 200mA when TX<br>20mA on sleep                   |
| <b>Power Consumption - TX</b>    | 9mA at 0dBm                                      |
| <b>Power Consumption – Sleep</b> | 1.2 $\mu$ A (SRAM retention and RTC running)     |
| <b>CPU</b>                       | ARM Cortex M4 and ARM Cortex M3                  |
| <b>Memory</b>                    | 256KB Flash (100KB free for custom applications) |
| <b>Manage services</b>           | Cloud realtime managed                           |
| <b>Data output to cloud</b>      | 0.1 to 1Mbit Up data                             |
| <b>Certifications</b>            | FCC/CE/UL/FRE                                    |