

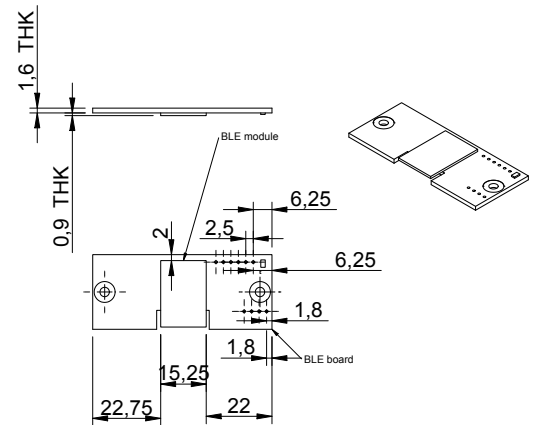
# AD-BLE-BRD USER MANUAL

The Adappt Wireless Occupancy Node (AD-WON) allow organizations to gather actionable intelligence about occupancy, & temperature at their workplaces. By using the real time information and insights that are provided by our desk occupancy sensors, employers can maximize space efficiency, utilization and sustainability.

The Adappt Wireless Occupancy Node (AD-WON) monitors occupancy and temperature. The Adappt Wireless Occupancy Node (AD-WON) incorporates all the sensing that is needed to autonomously monitor occupancy, and environmental conditions. The sensor also transmits the data wirelessly to the host.

## OVERVIEW

- Based on CSR1010 SoC
- 128kB Memory: 64KB RAM and 64KB ROM
- Bluetooth v4.1 Specification
- Support for Bluetooth v4.1 Specification host
- <600nA Current Consumption in Dormant mode
- Switch-Mode Power Supply
- Programmable General Purpose PIO Controller



Item	Specification
Part Number	AD-BLE-BRD
Antenna	Embedded(Patterned Antenna)
Bluetooth Technology	Conform to Bluetooth Core Specification Version 4.1 (Single Mod-25Deg to +75 Deg.Ce Low Energy Radio)
Transmit Power	Plus 7.5dBm (SoC)
Receiver Sensitivity	-92.5 dBm (SoC)
Crystal Oscillator	Embedded (32kHz and 16MHz Crystal or System Clock)
Power supply	3.3V
Dimensions	60mmx25mmx4.3mm
Operating Temperature	-25 Deg.C To +75 Deg.C (No Condensation)

## PIN CONFIGURATION

### J2 CONNECTOR

Pin No.	Pin Name
1	Vdd
2	Tx
3	Rx
4	Gnd

### J4 CONNECTOR

Pin No.	Pin name
1	Clk
2	CSB
3	MOSI
4	MISO
5	SPI EN
6	Gnd

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### **MPE Requirements**

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.

To ensure compliance, operations at closer than this distance is not recommended.

**Information for the OEM Integrators**

This device is intended for OEM integrators only. Please see the full grant of equipment document for restrictions.

**Label Information to the End User by the OEM or Integrators**

If the FCC ID of this module is not visible when it is installed inside another device, then the outside of the device into which the module is installed must be label with “Contains FCC ID: 2AOCPAD-BLEBRD”