

# Wirelessly Powered IoT Sensor Evaluation Kit



In partnership with InPlay, this Wirelessly Powered IoT Sensor Evaluation Kit gives you a hands-on experience with Energous' Wireless Power Networks technology and InPlay's IN100 Bluetooth Low Energy (BLE) system-on-a-chip (SoC). This kit is specifically designed to demonstrate the capabilities of these technologies for battery-free IoT sensor applications.

This Wirelessly Powered Sensor Evaluation Kit combines an Energous Eagle (1W) or the forthcoming Condor (2W) PowerBridge with two battery-free sensors and a mobile application to receive sensor data via Bluetooth LE. The sensors support at-a-distance wireless power from the Energous PowerBridge for applications like smart buildings, smart homes, logistics, supply chain, industrial IoT sensors, and more.

Energous' sensor receiver board combines InPlay's IN100 nano beacon BLE SoC, e-Peas harvesting PMIC SoC, Sciosense's temperature and humidity sensors, a highly optimized energy harvesting PCB-meander-line antenna, and a 163  $\mu\text{F}$  energy storage capacitor. This allows for an ultra-low power profile with less than 40  $\mu\text{W}$  power consumption.

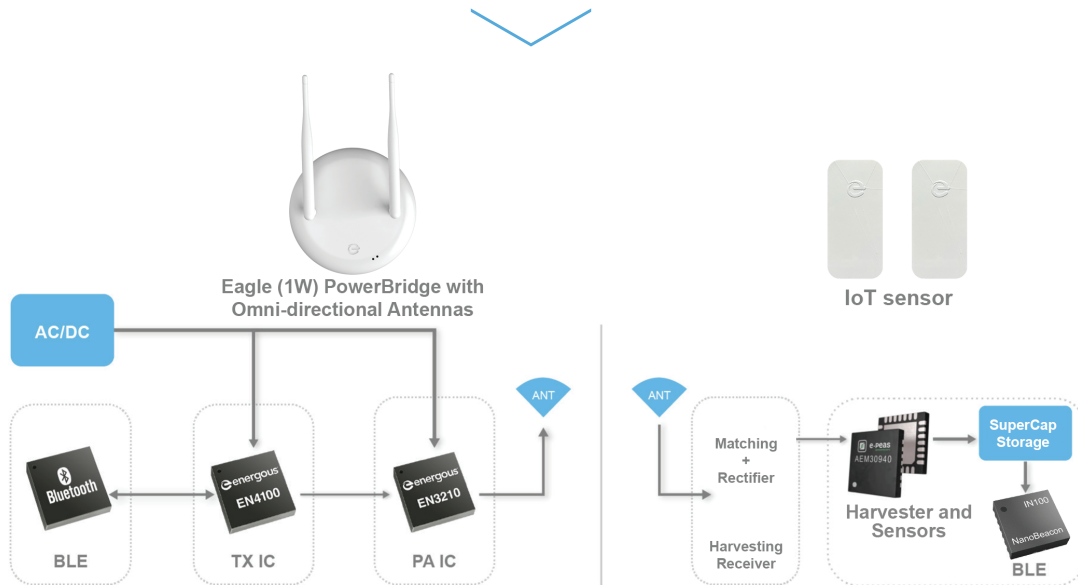


## Kit Contents

- Eagle (1W) Omni-directional Transmitter (1)
- 2.4 GHz External Antenna (1)
- 918 MHz External Antenna (1)
- Battery-Free IoT Sensors Receiver Unit (2)
- 5V/1A USB Power Adapter (1)
- USB-A to USB-C Cable (1)
- Receiver Stand (2)
- Wall/Ceiling Mounting Plate (1)
- Quick Start Guide Postcard with QR code (1)



# Wirelessly Powered IoT Sensor Evaluation Kit Block Diagram



## Advantages

- e-Peas AEM30940 Harvesting PMIC with Supercapacitor or Rechargeable Lithium Battery Support
- Sensor data available through Energous or InPlay mobile applications
- Sensors provide temperature and humidity data via Bluetooth LE

For more information or to order,  
please contact: [sales@energous.com](mailto:sales@energous.com)

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3590 N 1st Street, Suite 210 | San Jose, CA 95134 | (408) 963-0200

