

# Wireless Energy Harvesting Evaluation Kit



In partnership with e-peas and NGK Insulators (NGK), this Wireless Energy Harvesting Evaluation Kit gives you a hands-on experience with Energous' award-winning Wireless Power Networks technology, e-peas energy harvesting management chip and NGK's lithium-ion rechargeable battery EnerCera. This kit is specifically designed to demonstrate the capabilities of these technologies for IoT sensor applications by providing consistent over-the-air wireless power for ESLs (electronic shelf labels), asset trackers, sensors, BLE beacons and other small devices. The result is an all-new reality of mobile, waterproof, maintenance free, smaller, and easier to implement devices for:

- Smart Logistics
- Smart Retail
- Smart Buildings
- Smart Factories
- Smart Agriculture & More

This Wireless Energy Harvesting Evaluation Kit combines Energous' radio frequency (RF) wireless power network solution with e-peas' power management IC technology and NGK's lithium-ion rechargeable battery EnerCera to support at-a-distance wireless power applications for smart buildings, industrial IoT sensors, retail electronic displays and more.

The 1W PowerBridge transmitter incorporates the EN4100 and EN3210 devices. The EN4100 is a highly integrated System-on-Chip (SoC) RF transmitter IC, while the EN3210 is a 1W, high-efficiency power amplifier (PA).

The AEM30940 is the system charger and PMIC, configurable for different energy storage elements.

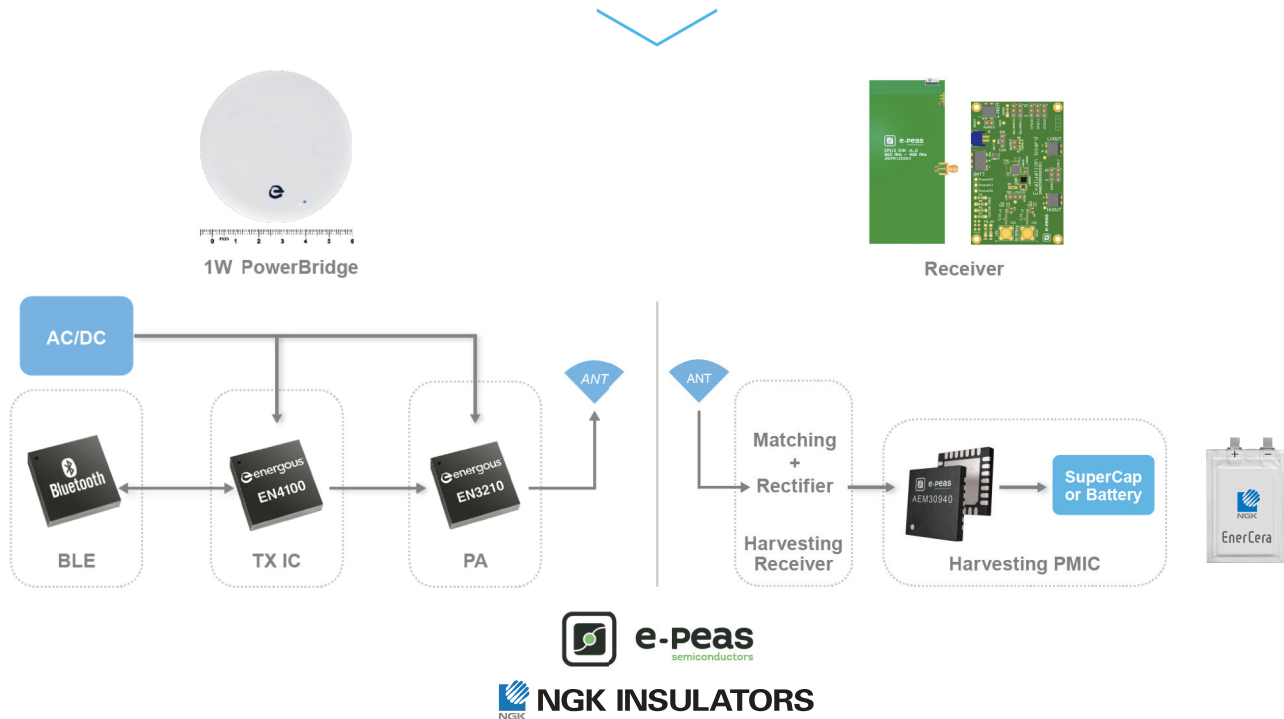


## Kit Contents

- 1W PowerBridge Transmitter (1)
- e-peas AEM30940 RF Evaluation Board
- e-peas EP112 Energy Harvesting Optimized Antenna Evaluation Board
- EnerCera EC382704P-T rechargeable battery



# Wireless Energy Harvesting Evaluation Kit Block Diagram



## Advantages

- e-Peas AEM30940 Harvesting PMIC with Supercap or rechargeable Lithium battery support
- Low Voltage Operation from 50 mV to 5V
- Cold Start from 380 mV input voltage
- EnerCera series can store a small amount of energy and is capable of releasing an amount of energy large enough to power devices despite being ultra-thin and ultra-small

For more information or to order,  
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