Wireless Sensor Core™

Agility Ingenuity

Potential Applications

- Building control
  - Access control
  - Temperature sensing
  - Lighting
  - Fire/gas detection
  - Energy
- Industrial applications
  - Process control
  - Instrumentation
- Metering
  - Handheld metering systems
- Motor speed control
  - AC motors
  - DC motors
  - Steppers
- Automotive
  - LIN slave nodes
  - Body and convenience electronics

Features

- Microcontroller
- ZigBee wireless communication
- Mesh, Star or Hybrid Network enabled
- LCD display
- Sounder
- Temperature sensor
- SPI and UART interfaces
- Assorted analog and digital I/O
- Ultra low power modes
- 1 Mbit integrated Flash memory
- Assorted LEDs and buttons

Description

The **Advantage Wireless Sensor Core** ™ is a slave companion platform to the **Advantage Wireless Controller Core** ™, a proven system designed specifically to jumpstart new products in development. Fixed remote sensing applications can provide convenience, efficiency, and safety. Wireless interfaces such as ZigBee provide rapid, low-cost, and ultra low-power installation.

Advantage's Wireless Sensor Core is housed on a small form factor printed circuit board which embeds the antenna directly in the PCB, so that no external antenna is required.

Custom Applications

Advantage will tailor a Wireless Sensor Core ™ to meet your product needs. We can provide a wide variety of sensor interfaces and AC or battery powered solutions. The design can be scaled to provide any amount and type of analog and digital I/O. To meet your cost or power requirements, only the required peripherals need to be installed.

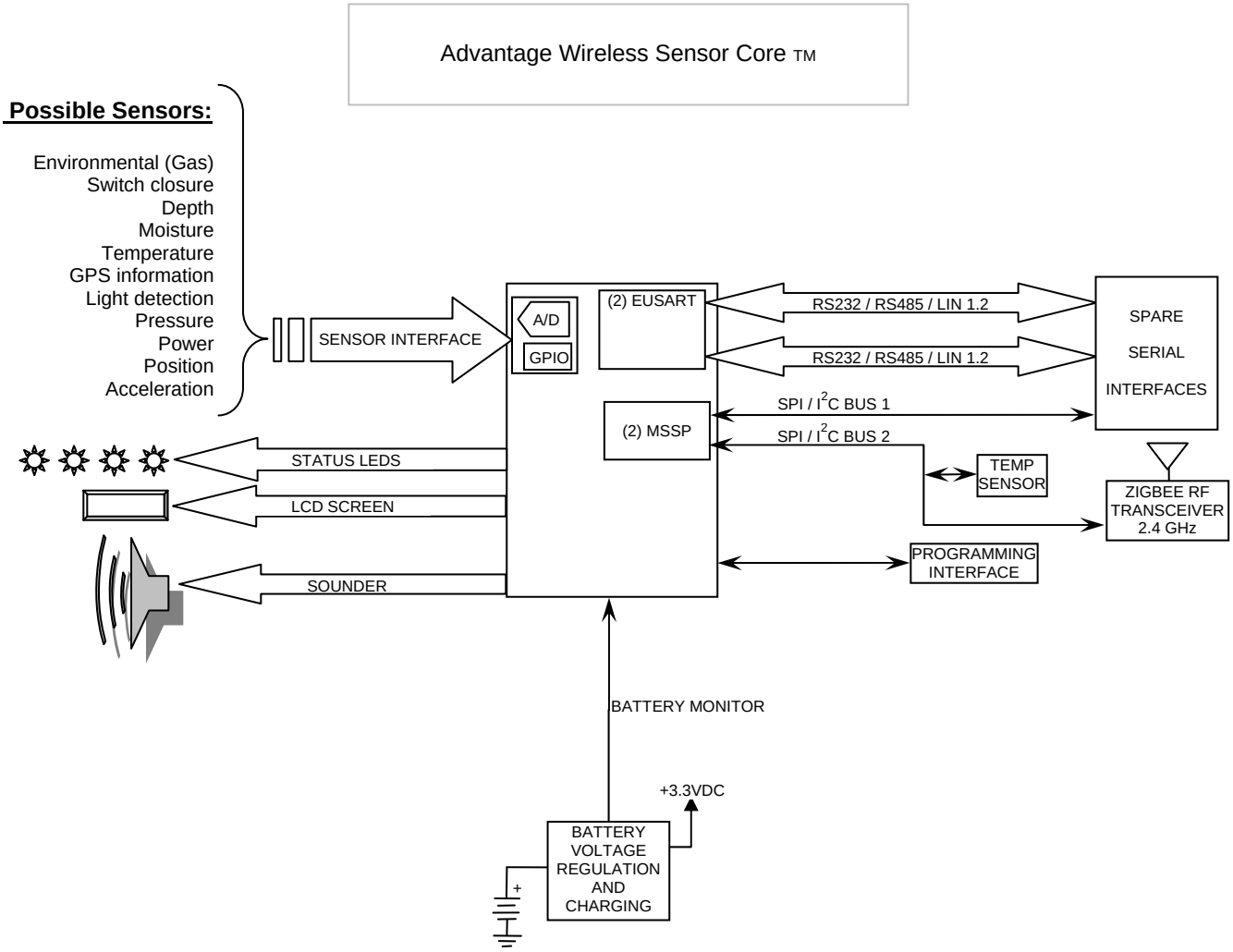

Figure 1: Wireless Sensor Core ™ Block Diagram

Our products are manufactured to meet WEEE/ROHS guidelines for lead free parts and electronic waste.

Any business that sells applicable electronic products, sub-assemblies or components directly to EU countries, or sells to resellers, distributors or integrators that in turn sell products to EU countries, is impacted if they utilize any of the restricted materials. WEEE compliance aims to encourage the design of electronic products with environmentally-safe recycling and recovery in mind. RoHS compliance dovetails into WEEE by reducing the amount of hazardous chemicals used in electronic manufacture.