

Wireless Controller Core™

Agility - Ingenuity

Potential Applications

- Building control
 - Access control
 - Wireless sensors
 - Lighting
 - Fire/gas detection
 - Energy usage
 - Temperature sensing
- 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
- USB (12 Mbps slave)
- LCD display
- ZigBee wireless communication
- Mesh, Star or Hybrid Network enabled
- Telephone modem
- Sounder
- Temperature sensor
- Li-Ion battery and charger
- 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 Controller Core™** is a proven platform useful in a wide range of products from control & monitoring systems, to appliances or hand-held and other battery-powered devices. Leveraging the Advantage Wireless Controller Core is an excellent method of jumpstarting a new product development. In today's accelerated environment agility is increasingly important. It takes ingenuity to reduce time to market, lower risk, and shrink development costs. The Advantage Wireless Controller Core™ is designed to do just that.

The embedded microcontroller provides the opportunity for adaptability, product differentiation, data logging, and safety features. When combined with Advantage's Wireless Sensor Core™, a wide variety number of remote sensing applications are possible.

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Custom Applications

Employing these core capabilities, Advantage can tailor a product to meet your needs. We are able to provide a wide variety of high or low level communication buses, 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.

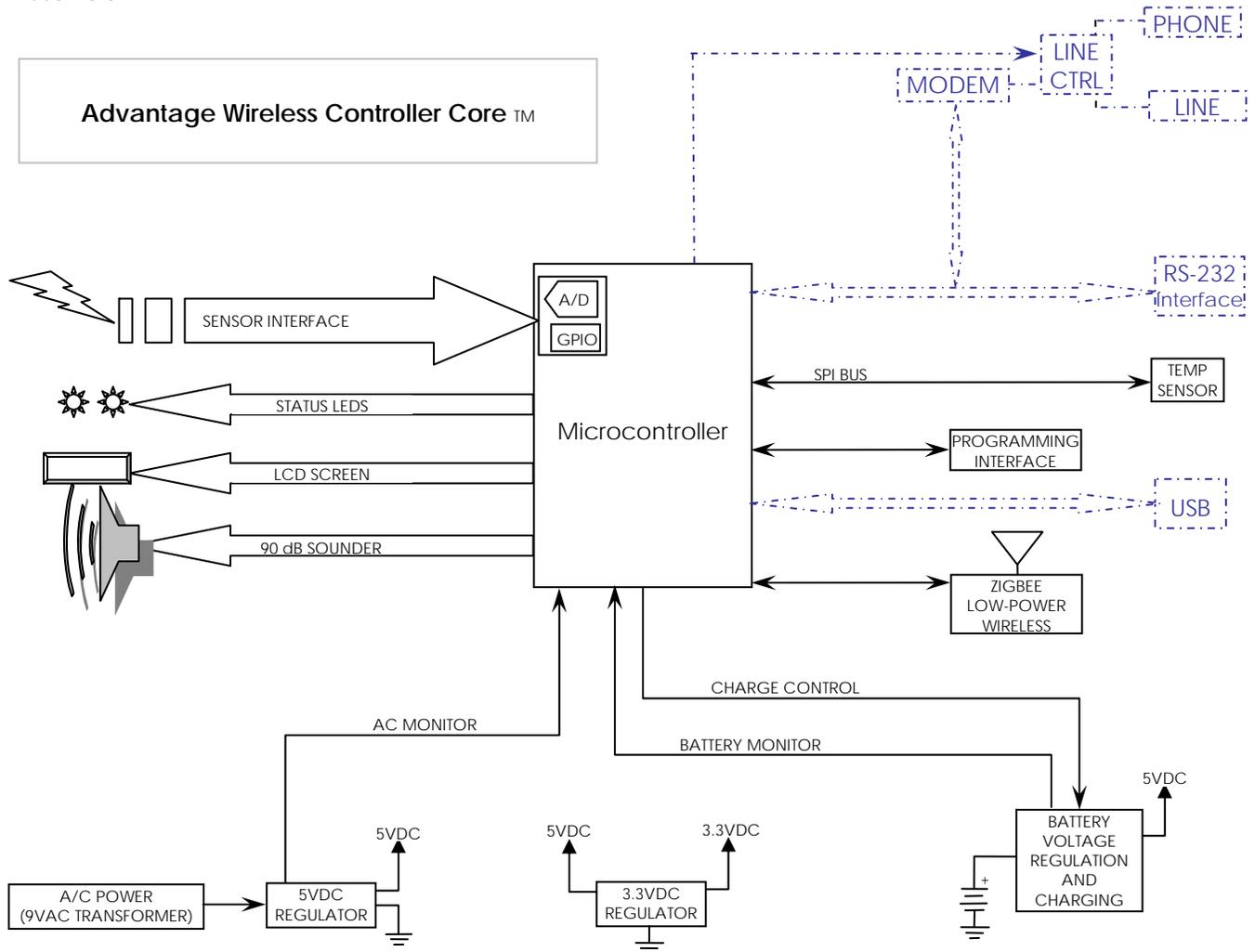


Figure 1: Wireless Controller Core Block Diagram



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.