





### *Resonant Magnetic Induction*

eCoupled™ wireless power technology is based on the principle of resonant magnetic induction. With magnetic induction, power is transferred from a power supply coil to a receiving coil through a shared electromagnetic field. Through the use of near-field magnetic coupling with an advanced intelligent control system, eCoupled technology safely and efficiently transfers power without wires.

## THE INTELLIGENT WIRELESS POWER SOLUTION

eCoupled™ technology is real, intelligent wireless power. It is the evolution of power delivery worldwide. It liberates us from the constraints of traditional power delivery and uses adaptive inductive coupling with an advanced intelligent control system to take wireless power technology to the next level.

Using power has traditionally required plugging in a multitude of incompatible cords and connectors; creating clutter in our home, at the office and on the road. eCoupled technology, quite simply, removes these cords and allows an eCoupled-enabled device to acquire power or charge merely by being placed above an eCoupled-enabled surface. Wireless power requires two coils to work – a power supply coil and a receiving coil. Power is transferred wirelessly from the supply coil to the receiving coil through a shared electromagnetic field.

Recognizing the significant limitations of other wireless power technologies, Fulton Innovation specifically designed eCoupled technology with sophisticated communication and control algorithms enabling it to efficiently and safely transfer power through the use of near-field magnetic coupling. Magnetic coupling has existed for over a century, but the engineers at Fulton Innovation have truly harnessed its power by creating a proprietary identification and profiling system that allows an eCoupled-enabled surface to identify any eCoupled-enabled device placed in proximity, and supply the exact power needs required to power or charge that device. Whether it is charging cell phones, laptops or kitchen appliances, the eCoupled intelligence and control system has created a simple, safe and extremely convenient method to power your world.



## KEY FEATURES OF ECOUPLED™ TECHNOLOGY

- **Safe:** Certified for safety by standards organizations in over 38 countries
- **Efficient:** Dynamically seeks resonance and optimizes power transfer at high efficiencies (greater than 98% at 120 volts/1.4 kilowatts)
- **Quiet:** Meets EMI/RFI regulations eliminating interference with other electronic devices
- **Milliwatts to Kilowatts:** Accepts low, medium and high-power applications
- **Free Positioning:** Receives power without the constraints of cords, connectors, contact points or the need for precise positioning
- **Flexible Integration:** Can power devices and charge batteries through full integration in a device or through an external adapter that contains the technology
- **Interoperable:** Powers multiple devices of different brands with a single source, including devices that have different power requirements
- **Data Transfer:** Allows for wireless data transfer of up to 1.1 Mbps
- **Simplify Design and Extend Product Life:** Eliminates the need for external ports, connectors and proprietary chargers
- **AC/DC Input Power:** Can operate on either AC power from a wall outlet or DC power from an adapter
- **Patented:** Over 400 patents granted, published or pending worldwide



*Low, Medium and High*

From the home to the office or while you travel, wireless power simplifies the way you live. eCoupled™ technology can power devices from milliwatts to kilowatts that can be wirelessly powered or charged in a variety of environments.

## THE POSSIBILITIES

eCoupled™ technology makes wireless power a commercially viable reality across a broad range of product categories and power requirements—from low to high-power applications—and it can be implemented virtually anywhere power is needed.

### Devices:

Appliances | Mobile Phones | PDAs | MP3 Players | Computers  
Medical Devices | Power Tools | Lighting | Toys

### Infrastructure/Environments:

Automotive | Aviation | Office | Home | Retail

IMAGINE POWER WITHOUT WIRES.





Fulton  
INNOVATION

## **ABOUT FULTON INNOVATION**

Fulton Innovation is dedicated to commercializing new and innovative technologies that hold economic and social value and improve the way we live, work and play.

Headquartered in Ada, Michigan, USA, Fulton is an international leader in utilizing advanced technologies to improve the quality of life for people around the world. Fulton is a subsidiary of Altacor, Inc., which employs more than 14,000 people worldwide.

*Our Product Partners*

Amway

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**cm** case-mate®

***Energizer***

Gill Industries, Inc.

 Herman Miller

*Leggett & Platt*  
Innovation Redefined™



**MOTOROLA**



Sennco Solutions, Inc.

*Our Supply Chain Partners*

**Avid**

 **TEXAS  
INSTRUMENTS**

## **JOIN THE WIRELESS POWER REVOLUTION**

Through the advances that Fulton Innovation has made with eCoupled™ technology it allows us to reinvent the way we use power and simplify our everyday lives. The Fulton Innovation engineering team has developed an industry-leading wireless power intellectual property portfolio of more than 400 U.S. and international patents that are granted, published or pending.

Fulton Innovation is working with leaders in a wide range of industries to develop and introduce product solutions powered by eCoupled technology. Global joint partnerships in developing wireless power delivery standards and broadening the application of eCoupled technology are available. eCoupled technology may be the solution to your product development or design challenges.



*Partners of the Wireless Power Consortium*



**Duracell**

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**HOSIDEN**



**Olympus**



**PHILIPS**

**Samsung Electronics**

**Sang Fei**

**Sanyo**

**ST-Ericsson**



## SETTING THE STANDARD

Fulton Innovation plays an important role in setting the technical specification for the low power standard as a member of the Wireless Power Consortium, an international cooperation of companies that are working together to create and promote wide market adoption of the international wireless power standard for interoperability across rechargeable electronic devices. For more information, please visit [wirelesspowerconsortium.com](http://wirelesspowerconsortium.com).



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