

Fulton
INNOVATION



eCoupled™ Technology



Real Intelligent Wireless Power



THE DIFFERENCE IS IN THE INTELLIGENCE

The intelligence of eCoupled technology allows it to dynamically seek resonance and optimize power transfers at high efficiencies (greater than 98% at 120 volts/1.4 kilowatts) under multiple, varying spatial configurations and load conditions—from low-power to high-power applications. Power and data can now be efficiently transmitted to virtually any electrical device without the constraints of cords, connectors or contact points. And the solution can be either adaptive or integrated. This means that different devices from different brands requiring different power needs can share a single power source creating a truly interoperable solution at energy costs comparable to hard-wired connections.

Through its advanced identification protocol, eCoupled technology adapts its operation to match the needs of each device it powers by communicating with it in real time. It assesses and determines not only power needs but also factors in battery or device age and charging lifecycles. It provides only the necessary power needed to keep a device operating at peak efficiency.

Additionally, eCoupled technology authenticates any device within range. If a device or object is not immediately recognized as eCoupled compatible, the power source will not supply power to it, maintaining a safe operating environment. eCoupled technology has been validated by standards organizations in 36 countries for safety, electromagnetic compatibility (noise) and other international performance criteria.



Additional Features and Benefits

Safe and quiet

Accepts low, medium and
high-power applications

Freedom of positioning

Supports charging and direct
power supply solutions

Supports integrated and
adaptive solutions

Powers multiple devices of different
brands with a single source

Supports global interoperability

Supports wireless data transfer

Simplifies design and extends product life

Supports AC/DC input power worldwide

Over 300 patents granted,
published or pending worldwide



ECOUPLED TECHNOLOGY IS INTELLIGENT

Dynamic Control And Interoperability eCoupled technology's sensitive system monitoring is the heart of intelligent wireless power. It allows any eCoupled power source to communicate directly with any other power source that comes within range and determines if the object is eCoupled-enabled—if it's not, the system will not provide power to it. When an eCoupled-enabled device is recognized, the system instantaneously evaluates its needs and delivers the optimum amount of power to the device. By not broadcasting power and actively maintaining a high level of control, eCoupled technology is able to realize high efficiencies, reduce energy losses and insure the highest safety levels.

Identification & Authentication Using A Communications Protocol eCoupled technology uses a proprietary protocol to communicate with the devices it powers. It authorizes instantaneous identification of eCoupled-enabled devices and utilizes two-way feedback on the operation and status of the powered devices to monitor performance. eCoupled technology maximizes power efficiencies and transfers data between the power source and the devices.

Parasitic Metal Detection eCoupled technology immediately recognizes when any inappropriate device or object (non-eCoupled-enabled device) comes within range of a power source and automatically shuts down, maintaining one of the safest operating environments in the industry. The technology also focuses power on the eCoupled-enabled devices within range. It maintains higher levels of efficiency and keeps surrounding materials, that could potentially pull power current away, safe.

Green eCoupled technology's intelligence makes it a green solution. Its intelligent communications protocols and design-friendly nature eliminates unnecessary cords and outdated power solutions, and reduces energy being wasted through inefficient chargers. It empowers product designers and manufacturers with the ability to reduce their carbon footprint and reduce landfill waste.

The development of eCoupled technology makes product design and layout constraints in a range of industries—from home to office to auto—a thing of the past.

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



Fulton Innovation is dedicated to commercializing and promoting new and innovative technologies that provide global economic and social value.

Fulton is committed to being the world leader in discovering, distributing and commercializing valuable innovative technologies.

With offices in Ada, Michigan USA and Cambridge, England UK, Fulton is an international leader in utilizing advanced technologies to further develop the quality of life for people around the world. Fulton is a member of the Amway Inc. family of companies, which employs more than 13,000 people worldwide.



PARTNER WITH FULTON INNOVATION

eCoupled technology is transforming everyday life. Through the advances that have been made and the barriers that have been overcome, the technology is improving the way we live, work and play.

Fulton Innovation is working with leaders in a wide range of industries to develop and introduce product solutions powered by eCoupled technology and to establish it as the standard for wireless power transfer worldwide.

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. **Contact us today.**

Fulton Innovation is a proud member of the Wireless Power Consortium.

wirelesspowerconsortium.com



TECHNICAL RESOURCES

eCoupled Evaluation and Development Kits

Explore eCoupled technology and learn what it takes to bring intelligent wireless power to your devices.

The **eCoupled Evaluation and Development Kits** are your primary tools for assessing and implementing eCoupled technology.

Kits are available for purchase in the second quarter of 2009. Inquiries can be made through **Avid Technologies** at **330.487.0770**.

ecoupled.org

eCoupled Online Technical Community

Coming in 2009!

ecoupled.org is a secure site dedicated to our partners. It is the definitive source of information around eCoupled intelligent wireless power development.

Visit **ecoupled.org** to learn more.

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