



energybank.

energybank is a distributed energy resource company specialized in developing and integrating Award-Winning, High-Performance LED, Solar-Powered LED, Advanced Controls and IoT devices.

Conserve. Control. Create.

energy smarter.



Solution Overview

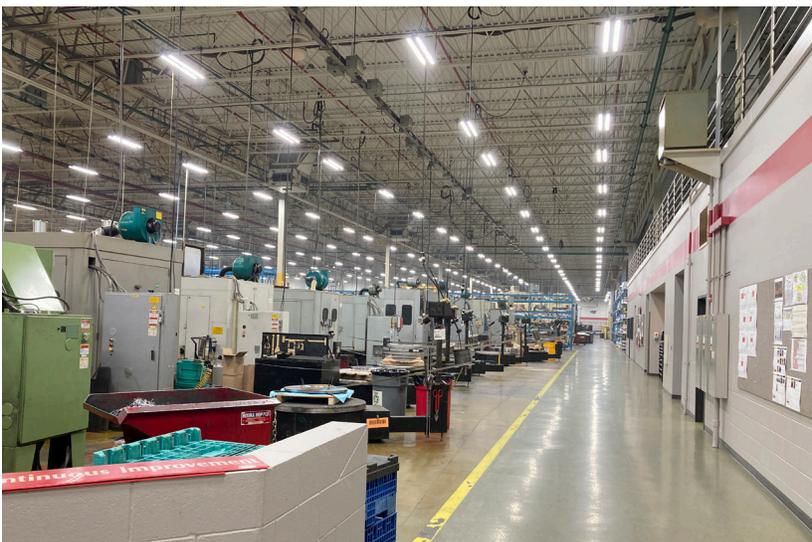
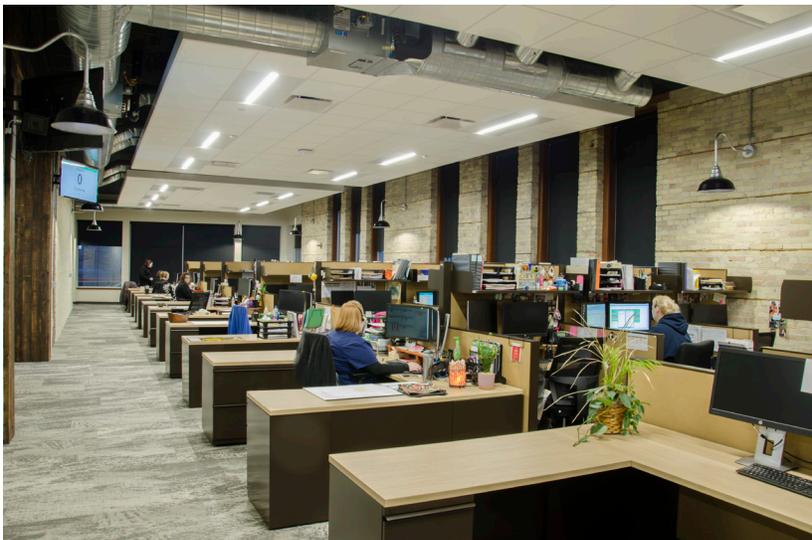
Our Genius IoT® wireless is so versatile, it's the Multi-Tool of IoT Controls.

Our expandable technology platform starts with our Dynamic Motion controls that are designed to deliver the maximum savings while enhancing the workplace environment. Our platform can easily be expandable to include monitoring of an unlimited amount of mission critical processes throughout the facility reporting non compliant data points from nearly every type of analog sensor 0-10V, 4-20 milliamp or a multitude of digital sensors.

Key Capabilities

- + Works both indoors and outdoors — no need for separate control systems.
- + Easy customization – quickly set up energy-saving behaviors that comply with energy conservation requirements, including demand response and daylight harvesting.
- + Multiple methods of control — flexible deployment models allow stand-alone local access.
- + Scalable solution — integrate seamlessly into existing BMS systems and support large deployments with cloud-based architecture.
- + Robust wireless 915MHz technology – continually monitors the wireless network.
- + No special server required — forget expensive, complex hardware, or additional IT equipment.
- + Streamline commissioning — with project management services and built-in tools within the software, have the customer's lighting network up and running quickly.

*Commission-less in some applications.





Application

energybank control solutions are designed to address the needs of commercial and industrial environments that require performance, reliability, range, scale, and flexible control options.

Outdoor Application

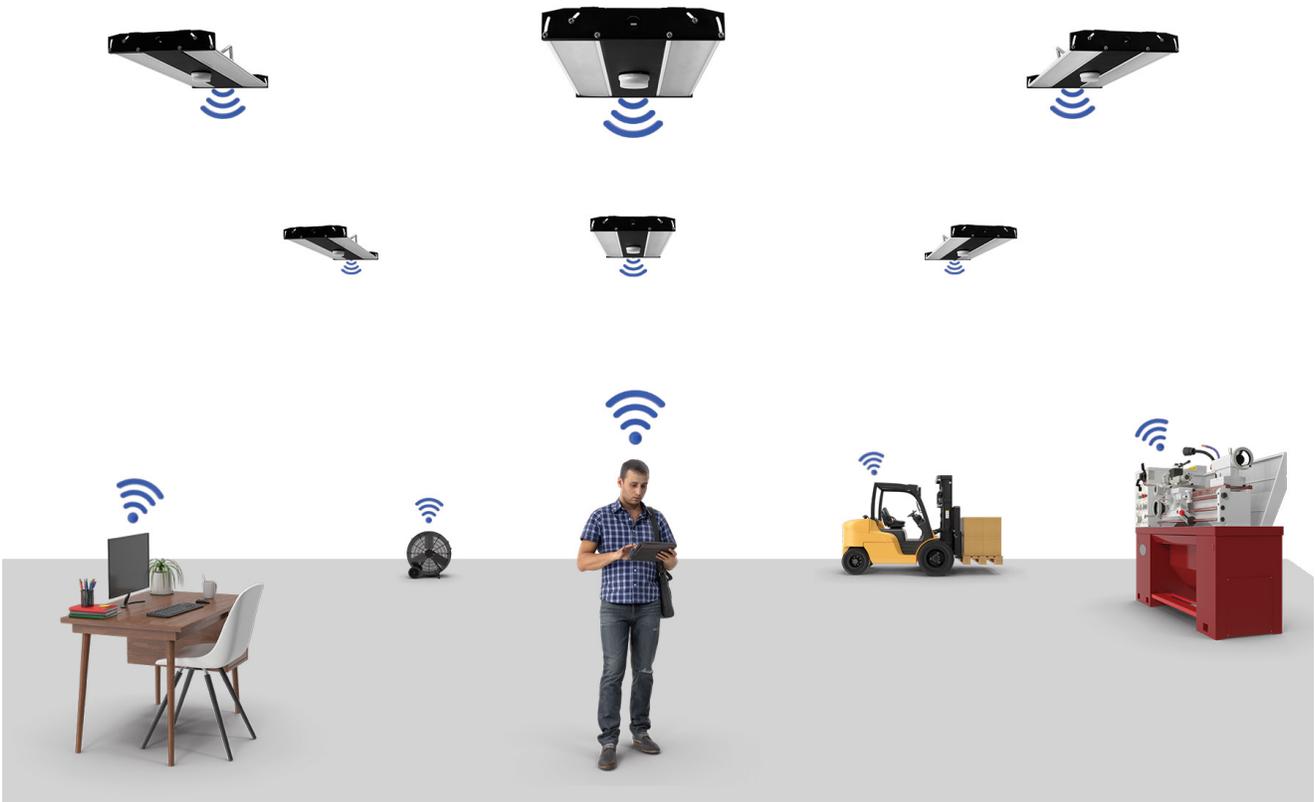


- + Parking Lots
- + Parking Garages
- + Pathway & Roadway
- + Sports Facilities & Stadiums
- + College & Enterprise Campus

Indoor Application



- + Manufacturing Facility
- + Warehouses
- + Gymnasiums
- + Indoor Practice Fields



Motion Control Digital Ceiling Canopy

The energybank Genius IoT® Wireless controls can be retrofitted to any LED fixture with 0-10V dimming and 12-24V auxiliary power. Once energized, the devices will automatically discover and connect with other Genius IoT®-enabled devices for a dynamic motion control system creating a Digital Ceiling Canopy.

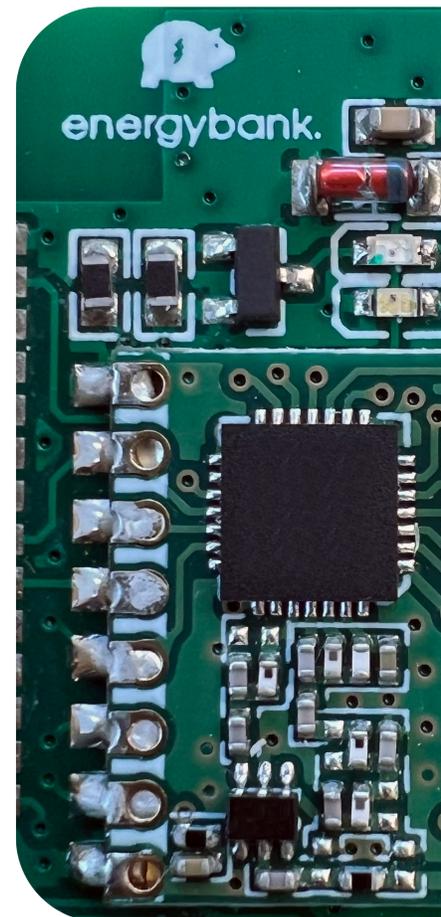
Features

- + 4 Level Motion
- + Individual Fixture Power Consumption
- + Zone
- + Building
- + Dynamic Timeout

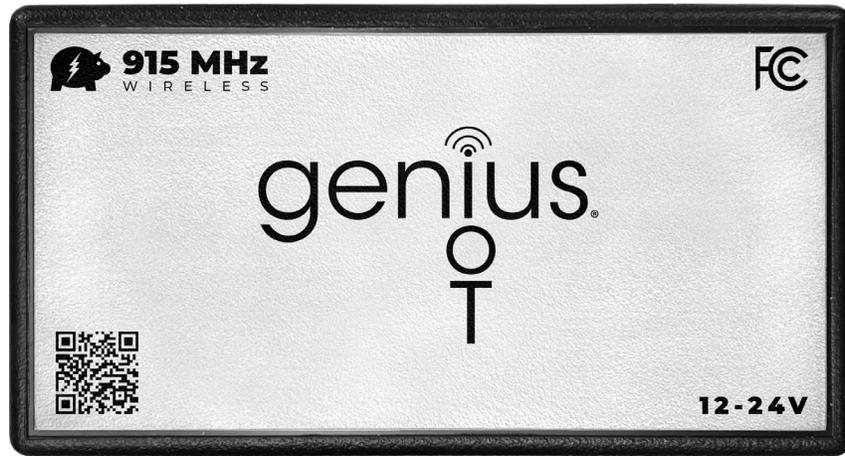
Minimum 30 second interval with additional second added per second of occupancy

Expandable Platform

- + FUSION Photovoltaic Lighting
- + Demand Response
- + Zone/Building Override



Key Hardware Components



* FCC Certification in process.

915 MHz Wireless Transceiver/Repeater

When compared to the 2.4 GHz Bluetooth Low Energy device, the 915 MHz will always out perform the 2.4 GHz in real world applications with longer range, better penetration and through building obstructions. The Genius IoT® controller performs continuous self diagnostics sending out a heartbeat at 2 minute intervals. In the event of a communication failure the controller has Fail-To-On capabilities.

- + Star Network
- + Frequency Hopping
- + Continuous Heartbeat Monitor
- + AES-128 Encryption



Wireless Switch Dimming Controller

Our Wireless Light Dimming Controllers allow users to easily adjust their lights to the desired light level set point. 0-10V Dimming.



FUSION Hybrid LED Lighting System

The patented FUSION Control System has an advanced hierarchy of controls based on various inputs to accurately dim LED light fixtures. Optimizing energy savings with an easy-to-use interface.

*Wireless Option available



External Motion Zone Sensor - GIR

Loaded with a PIR Sensor and CAT5 RJ45 Connector the External Motion Zone sensor allows for easy expansion of our FUSION Motion Zone Network and building vacancy.



Industrial Vibration Temperature Sensor

Simply connect the sensor to a machine magnetically to accurately view full 3-axis measurement with Vibration and Temperature ranges in real-time via the Visualization Dashboard and SMS Alerts.

*Specifications and design are subject to change without any notice or obligation on the part of the manufacturer.

Key Features

Visualization Dashboard

Powered by Amazon AWS, The FUSION Visualization Dashboard lets businesses view and archive real time data while automatically messaging key performance indicators that are vital to your operation. Project performance can be verified with revenue grade metering.



- + Electric Usage
- + Temperature
- + Pressure
- + Humidity
- + Process Equipment

Alarms for Critical KPI's can be sent via text message.

Android Configuration Tool

Our Android Interface configuration tool allows businesses to make real-time adjustments to Motion, Color Tuning, Set-point's, Solar Energy and Ambient Light Harvesting via Bluetooth connection. Businesses can also take advantage of the switching capability for Arc Flash compliance.





Why Energybank?



**We operate with a simple modus operandi.
Make a Promise. Keep a Promise.**

To learn more, call or
visit: energybankinc.com
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