

Energous PowerBridge LITE Transmitter

1W DIRECTIONAL

**Compact Indoor Transmitter
with a linear polarized antenna
offering a $\pm 35^\circ$ directional field
of view.**

The PowerBridge LITE 1W Directional transmitter offers a range of cost-efficient WPN solutions that works with a variety of energy harvesting Bluetooth Low Energy (BLE) sensors.

The transmitters can be easily mounted on a wall or vehicle, making them ideal for applications requiring efficient power delivery in a focused, targeted area, including zoned asset monitoring, fleet management, and/or temperature and humidity monitoring.

The transmitters combine a high-efficiency power amplifier with a System-on-Chip (SoC) RF transmitter to create a wireless charging infrastructure that enables continuous data streams from mobile IoT devices into business-critical applications.

The Possibilities are Endless

Energous RF-based wireless power networks offer several benefits over the current coil-based induction and resonant charging solutions in that they don't suffer the same limitations regarding charger orientation, device placement, signal interference, and other pain points. Energous offers a suite of at-contact and over-the-air RF-based wireless power transfer solutions that eliminate thermal challenges and foreign object detection issues.

Customers are provided with reliable, efficient, cost-effective technology that is always on and scalable to the needs of individual organizations. Energous receivers have a small physical footprint but have the capability to power everything from the largest piece of manufacturing equipment to the smallest hearing aid, streamlining production processes and lowering bill of material (BOM) costs.



Product Highlights

- 1W Effective Isotropic Radiated Power (EIRP)
- 1W Conductive Power
- Dual linear 900 MHz and 2.4 GHz antennas
- Works with Energous IOT Sensors and Williot
- Up to +30 dBm 900 MHz band energizing signal
- Up to +20 dBm 2.4 GHz band energizing signal
- BLE beacon filter and repeater functionality
- Visual Feed Back thru LED Indicators
- Capable of Over the Air (OTA) Updates
- 5V/1A Operation via USB-C
- FCC Part 15 Certified
- ISED (Canada)
- Certificate from EU, IK, CN, KR, JP



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Table with 2 columns: Feature, Details. Rows include Function, Supported products, Energizing*, and Echo function*.

Table with 2 columns: Feature, Details. Rows include Antenna, Type, Typical Gain, and Antenna 3 dB -beam width.

Table with 2 columns: Feature, Details. Rows include Iot Connectivity and Bluetooth.

Table with 2 columns: Feature, Details. Rows include Software and Updates.

Table with 2 columns: Feature, Details. Rows include Physical Interface and Status LED(s).

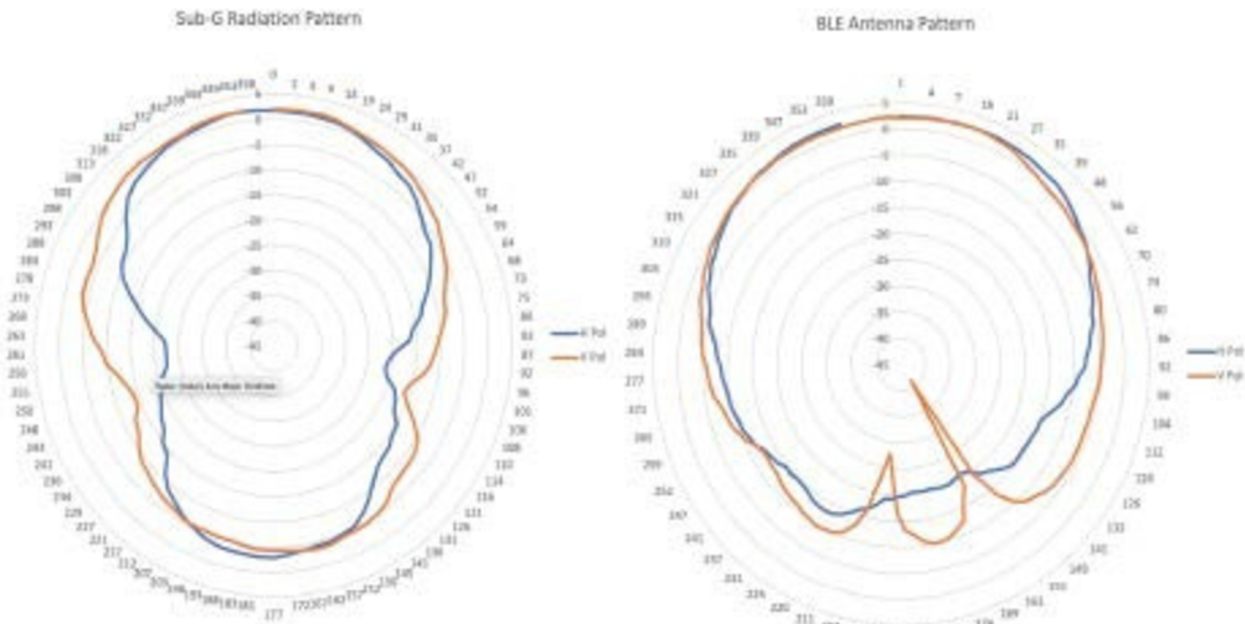
Table with 2 columns: Feature, Details. Rows include Physical Characteristics, Environment, Color, Dimensions, Weight, Mounting Options, and Operating Temp.

Table with 2 columns: Feature, Details. Rows include Power, Power Supply, and Connector.

Table with 2 columns: Feature, Details. Rows include Certification and Compliance and Electric Certs.

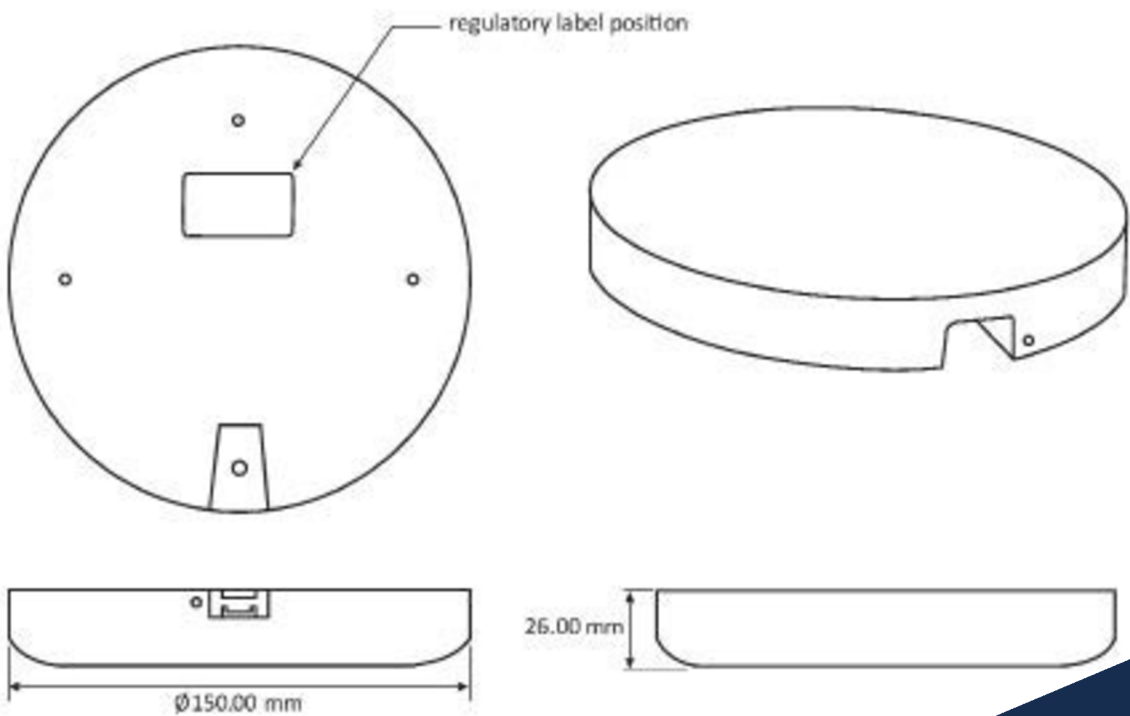
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Antenna Radiation Patterns



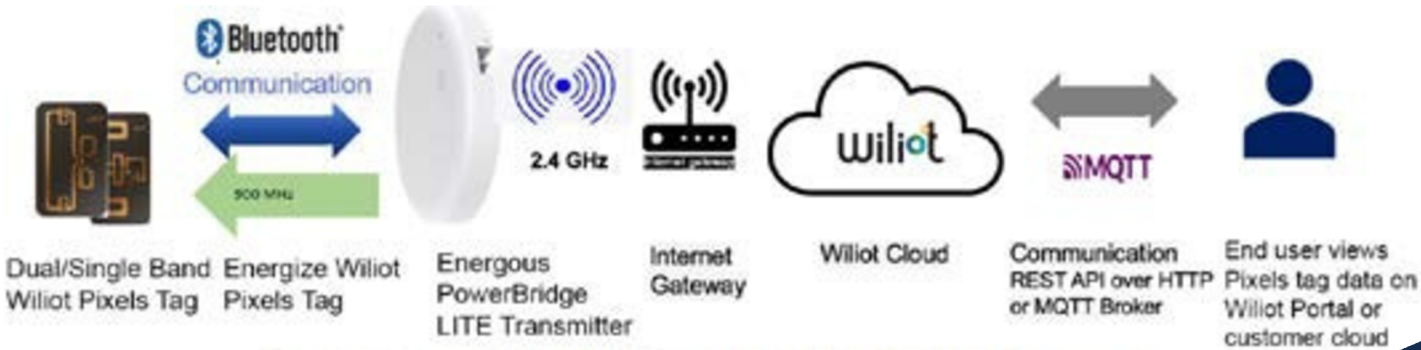
900 MHz and 2.4 GHz Radiation Pattern

Transmitter Diagram



The following countries are covered by 900 MHz band versions regulatory certification:
USA, Canada, United Kingdom, European Union, Japan, Korea, China, Australia, New Zealand

System Level Workflow Architecture Diagram



Energous PowerBridge LITE Transmitter within the Wiliot Ecosystem