

## Powercast ships PowerSpot power-over-distance wireless transmitter

*Also launches development kit to facilitate design of PowerSpot-based wireless charging ecosystems*

Pittsburgh, PA – September 25, 2018 - [Powercast Corporation](#), the pioneer of radio-frequency (RF)-based long-range wireless charging technology, announced that it has begun shipping its three-watt, Bluetooth®-approved PowerSpot® transmitter which is the industry's first that works in the far field (up to 80 feet) to charge multiple consumer devices over the air - no charging mats needed. Powercast began production of its PowerSpot transmitter after receiving FCC (ID:YESTX91503) and ISED (Canada IC: 8985A-TX91503) approval late December 2017, promising delivery in Q3 2018. The company is also launching a development kit to help manufacturers easily design PowerSpot-based wireless charging ecosystems.

### **How Powercast's patented remote wireless charging technology works:**

Creating a coverage area similar to Wi-Fi, the PowerSpot transmitter automatically powers or charges PowerSpot-enabled devices when they come within range. The transmitter uses the 915-MHz ISM band to send RF energy over the air to Powercast's tiny Powerharvester® receiver chip embedded in a device, which converts it to direct current (DC) to either directly power or recharge that device's batteries. The Bluetooth-approved transmitter detects devices within range and automatically begins delivering power.

The company's vision is to enable long-range, true wireless charging where consumers simply place all their PowerSpot-enabled devices within range of a PowerSpot transmitter in their home or a public place.

### **The PowerSpot creates an overnight charging zone of up to 80 feet free of wires or charging mats:**

The PowerSpot transmitter was designed to automatically top off up to 30 PowerSpot-enabled devices left on a countertop overnight in its charging zone, which varies with device type and power consumption. Instructions included with enabled devices will show recommended charging distance and time for that device. For example, power-hungry, heavily used devices like game controllers, smart watches, fitness bands, hearing aids, or headsets charge best up to two feet away; keyboards and mice up to six feet away; smart cards and TV remotes up to 10 feet away; and low-power devices like home automation sensors up to 80 feet away. On the transmitter, an illuminated LED indicates devices are charging and it turns off when they're done. Audible or visual alerts indicate when devices move in and out of the charge zone.

The Bluetooth-approved PowerSpot features a Bluetooth Low Energy (BLE) multiprotocol solution that makes the transmitter smart, configurable, and controllable. For example, BLE wirelessly schedules power transmissions, monitors battery status of charging devices, turns off the transmitter when devices are fully charged, and communicates data (detected devices and their IDs, BLE signal strength, charging level, and more) to the PowerSpot app.

"We're excited about a consumer product we're designing that is powered via our PowerSpot transmitter, but our main focus is on helping consumer device manufacturers develop their own PowerSpot-based wireless charging ecosystems," said Powercast's COO/CTO Charles Greene, Ph.D. "We already have numerous deals with Fortune 200 companies, and we expect product releases, theirs and ours, in 2019."

**PowerSpot development kit facilitates the design of PowerSpot-based wireless charging ecosystems:**

The development kit enables engineers to test the PowerSpot's capability to charge devices using multiple battery types. This data can help them decide if the wireless power solution is a fit for their application, and then plan their designs. It includes the PowerSpot TX91503 transmitter, a development board able to charge three kinds of batteries (a Li-ion 2032 coin cell battery, a Li-Mn single AA, and 3 Ni-MH AAAs in series), two Powerharvester receiving antennas (patch and dipole), and two PS915 illuminated RF field detectors. The development board communicates with the PowerSpot via BLE to turn it on and off, and communicates key data to the development kit's Powercast Charging Monitor app. The board also includes an LED indicator that demonstrates how distance from the transmitter impacts charging rate.

**Pricing and Availability:**

The PowerSpot transmitter sells for around \$100 from distributors Arrow, Digi-Key, and Mouser Electronics. The package includes a PowerSpot TX91503 RF wireless transmitter, six-foot power cord, USB wall outlet adapter, and quick start guide.

Once the transmitter reaches mass production, Powercast projects a \$50 ASP from major electronics stores or consumer electronics manufacturers offering it as a charging option.

The development kit, expected Q4 2018, will sell for around \$400 from the same distributors.

**About Powercast**

Powercast, established in 2003, is the leading provider of RF-based wireless power technologies that provide power-over-distance, eliminate or reduce the need for batteries, and power or charge devices without wires and connectors. Founded with the vision of enabling untethered devices powered over the air, Powercast continues to create the most efficient, safe and highest power harvesting technology achievable while complying with the FCC and other global standards. Powercast's IP portfolio includes 46 patents worldwide (21 in the US) and 30 patents pending. [www.powercastco.com](http://www.powercastco.com).

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**Note:** Visuals are available:<http://www.powercastco.com/visuals/>

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