TX91503 - 915 MHz PowerSpot® Transmitter



PRODUCT DESCRIPTION

Powercast TX91503 **PowerSpot** transmitter is specially designed to provide both power and data to end devices containing Powercast's power harvesting technology. The TX91503 contains a receiver that can hear when a harvesting device is in range, allowing the TX91503 to transmission power when harvesting devices are around. The TX91503 can also be controlled by an app that can set periods of use. The TX91503 is housed in a durable plastic case with several mounting options. Operational power is provided to the DC power connector. The TX91503 includes a status LED to provide feedback on functional state. The TX91503 has a factory set, fixed power output of 3W EIRP.



- FCC and IC approved
- Flexible wall mounting options
- Fully integrated system
- Transmits power and data
- Factory configurable for custom applications
- Wide temperature range

PRODUCT CONTENTS

The following items are included:

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	Qty	Description			
	1	915 MHz transmitter			
	1	1 Power supply			
	1	US plug for Power supply (must be			
		snapped in to the Power supply)			
	1	Quick Start instruction card			



POWERING APPLICATIONS

- Wireless battery charging
 - -Headphones
 - -Headsets
 - -Game Controllers
 - -Keyboards and Mice
 - -Fitness Trackers
 - -Smart Watches
 - -Wearables
 - -Smart Cards
- Battery-free wireless sensors
 - Industrial Monitoring
 - Smart Grid
 - Structural Health Monitoring
 - Defense
 - Building automation
 - Agriculture
 - Oil & Gas
 - Location-aware services

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Powercast products and technology are covered by one or more of the following patents and other patents pending: 6,289,237 | 6,615,074 | 6,856,291 | 7,027,311 | 7,057,514 | 7,639,994 | 7,643,312 | 7,812,771 | 7,844,306 | 7,868,482 | 7,898,105 7,925,308 | 8,159,090 | 8,350,255 | 8,432,062 | 8,461,817 | 8,621,245 | 9,000,616 | 9,021,277 | 9,107,579 | 9,251,699 | 9,706,924



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SET-UP AND OPERATION

- 1. Mount the TX91503 at the back of a desk or counter to create a PowerSpot® recharging zone. For wall mounted applications, use the keyholes on the back of the unit to hang the TX91503 for recharging devices like closet hung wearables.
- 2. Plug the DC connector of the power supply into the connector on the TX91503. Plug the power supply into a 120V outlet.
- 3. The TX91503 will remain off until one of the following occurs¹:
 - a. An authorized device enters the PowerSpot recharging zone.
 - b. The button on the unit is pressed to recharge a device with a completely discharged battery. The unit will activate for 30 minutes from a button press and then will turn off if an authorized device is not present.
- 4. When the TX91503 is active and transmitting radio frequency (RF) energy, data is automatically included in the transmission and can be received and used to authorize the device.

The status LED indicates the following operating conditions:

LED	Status	Description
Off	Off	5VDC is not applied
Green	Active	Transmitting normally
Red	Idle	TX91503 is powered but not actively transmitting
Blinking Red	Fault	TX91503 is in a fault condition such as overheating

¹The app can override these conditions and keep the transmitter in an OFF state.

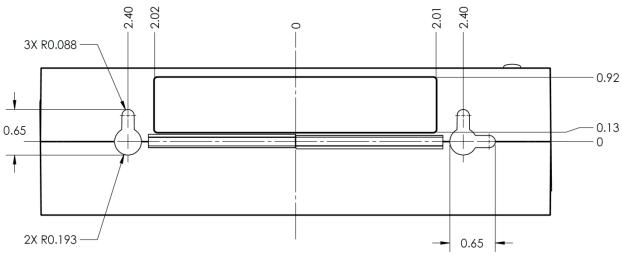
SPECIFICATIONS

Item	Description
Madulation	Power: Direct Sequence Spread Spectrum (DSSS)
Modulation	Data: Amplitude Shift Keying (ASK)
Frequency	915 MHz Center Frequency
Power output	3 watts EIRP
Doom nottorn	70° width, 130° height
Beam pattern	Horizontal Polarization (tabletop mounting)
Annroyals	United States - FCC ID: YESTX91503
Approvals	Canada - IC ID: 8985A-TX91503
Firmware Version	Located on the TX91503 label
Data Communications	An 8-bit, factory-set, TX91503 identification (ID) number is broadcast with
Data Communications	the wireless power. The ID number can be found on the TX91503 label.
Operating Temperature	-20°C to 40°C
Environment	Indoor use only
	Mount at the back of a desktop or countertop to create a PowerSpot
Mounting	recharging area
	2 keyholes (See mechanical drawing for dimensions) for wall mounting
Power	5VDC/1A through included Power Supply
Color	Black/Blue
Dimensions	7.3" × 2.1" × 1.4" (185.4 x 53.3 x 35.6 mm)





MECHANICAL (REAR VIEW)



*Dimensions in inches

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SUPPORT

Technical support for Powercast products can be initiated through the following methods:

Website contact form: http://www.powercastco.com/contact/

Telephone: +1 412-455-5800

COMPLIANCE STATEMENTS

Changes or modifications not expressly approved by Powercast could void the user's authority to operate the equipment. Use and maintain device only as specified in this manual.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

WARNING!

FCC and IC Radiation Exposure Statement:

This equipment complies with FCC's and IC's RF radiation exposure limits set forth for an uncontrolled environment under the following conditions:

- 1. This equipment should be installed and operated such that a minimum separation distance of 20cm is maintained between the radiator (antenna) & user's/nearby person's body at all times.
- 2. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.





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