



The Qi FOD Transmitter is a V1.1 power transmitter that can be used to test the operation and performance of Qi V1.1 power receiver devices. A USB serial interface is used to display operating information and to program transmitted power offsets as well as change the operating modes.

For a quotation or for technical inquiries please contact:
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Visit AVID's wireless power forum:
www.avid-tech.com/wirelesspower

Specifications
Subject to Change

APPLICATION

Product developers looking to quickly characterize and debug Qi V1.1 wireless power receiver functionality and foreign object detection (FOD) performance. The FOD Transmitter accurately measures and reports transmitted power (PPT) values. It is useful for V1.1 design debugging, characterization, Qi pre-compliance testing, and production testing.

FEATURES

- Fully functional Qi V1.1 Transmitter
- Stand alone, easy to use device in plastic frame
- +19VDC power input (DC supply included)
- LEDs for device status
- USB/serial port for displaying PPT, PPR, Ploss, and other parameters
- Uses same coil as FOD test transmitter TPT#2 specified by WPC
- Factory calibrated and characterized using AudioDev Calibrator
- Accurately measures and reports PPT to meet WPC requirements
- Decodes standard 8-bit WPC received power (PPR) packets
- Decodes high res 16-bit received power packets sent by AVID Qi Receiver Simulator V1.1 and AVID FOD Receiver devices
- Programmable PPT offset and FOD threshold values (serial commands)
- Open loop (fixed frequency) mode for characterizing receivers and for checking TX accuracy using the AudioDev calibrator
- Position mode (ping loop) for easy center alignment of receivers

TEST MODES

- Standard Qi V1.1 compatible transmitter
- Open loop mode (fixed frequency operation)
- Position Mode (ping loop for using signal strength to center RX)

PPT OFFSET AND FOD THRESHOLD

- Selectable PPT offset (+/-1000mW max, 1.0mW steps)
- Selectable FOD trip threshold (0 to 30000mW, 1.0mW steps)
- Enable or Disable transmitter shutdown after trip events or timeout