

Qi Configurable Receiver for Debug, Verification, and Testing of Qi Transmitters



### APPLICATION

Product developers looking to quickly characterize and test Qi medium power wireless transmitter functionality and foreign object detection (FOD) performance. The FOD Receiver accurately measures received power (PPR) and sends the WPC specified received power packets to the transmitter. The receiver is useful for design debugging, characterization/tuning, Qi pre-compliance testing, and production testing.

### FEATURES

- Fully functional Qi medium power (15 Watt) receiver that emulates TPR#MP3 (Medium Power FOD reference receiver)
- Stand alone, easy to use device in rugged enclosure
- +12VDC +/- 5%, 1.25A max output
- LEDs for device status
- Test points for bridge voltage and digital comm. data
- Uses same coil as FOD test receiver TPR#MP3 specified by WPC. Coil is mounted in external plastic frame to minimize parasitic losses.
- Factory calibrated and characterized using AVID FOD Transmitter
- Selectable (PPR) offsets up to +/- 630mW in 5.0mW or 15.0mW steps
- Accurately measures and reports PPR per WPC specifications
- Selectable internal loads up to 2.0W in 0.25W steps
- Screw terminals for connecting external loads up to 15.0W

### TEST MODES

- Standard Qi compatible medium power receiver with different loads
- WPC TPR#MP3 emulation using different PPR offset values

### PPR OFFSETS AND LOADS

- Selectable PPR offset step (-5.0mW, -15.0mW, +5.0mW, or +15.0mW)
- Selectable PPR offset multiplier (0 to 63)
- Selectable 0.0W to 2.0W internal loads in 0.25W steps
- External loads up to 15.0W can be connected (internal load disabled)

The Qi Medium Power FOD Receiver is a 15W receiver that can be used to test the operation and FOD performance of Qi wireless transmitters. DIP switches on top of the FOD Receiver are used to program received power offsets and to change internal loads.

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