AVID TECHNOLOGIES, INC.

Qi Receiver Simulator

Qi Configurable Test Receiver for Debug and Verification of Qi Transmitters

The Qi Receiver Simulator is a device that can be placed on a Qi wireless charging transmitter and used to test the transmitter's operation and performance. DIP switches on top of the Qi Receiver Simulator are used to select a number of different receiver operational modes as well as change the communication modulators and output load.

For more information on the Qi Receiver Simulator, contact AVID Technologies, Inc. at wirelesspower@avid-tech.com

Specifications
Subject to Change

APPLICATION

Product Developers looking to quickly analyze and debug Qi wireless transmitter system operation, firmware operation, and error handling. The Receiver Simulator provides a variety of tests for assessing transmitter performance. It is useful for design debugging, demonstrations, and for use as a general purpose Qi receiver.

FEATURES

- Stand alone, easy to use device
- Regulated +5VDC output
- Selectable comm. tests and modulators
- LEDs for device status
- Test points for bridge voltage and comm. modulator
- Selectable internal load
- Terminals for external load

TEST MODES

- Standard receiver
- No comm. packets
- Invalid comm. data bit rates
- Invalid comm. packet checksum
- Invalid packet order
- Invalid WPC spec version
- Undefined comm. packets
- Multiple power control hold-off packets
- Error packets at minimum intervals
- Repeated negative error packets
- EPT packets with reason codes
- Invalid packet timing
- No rectified power packets

MODULATORS AND OUTPUT MODES

- 30 Ω AC resistive modulators
- 10 nF AC capacitive modulators
- 0 to 2.0W internal load selectable in 0.25W steps
- External load up to 5W

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