

SYSTEM MONITORING:

VBRIDGE: (7 - 14V Typ.)
Receiver DC Bridge Voltage
COMM. (0 - 3.3V Logic)
Modulation Signal

5V, 0-1A OUTPUT:
Internal load is disabled
when external load (>0.25W)
is connected.

CONFIGURATION SWITCHES:
(See reverse for all settings)

TEST Switch 1, Position 1-6
Selects functional tests



LOAD Switch 2, Position 1-4
Selects internal load
0-2W, in 0.25W Steps

COMM Switch 2, Position 5-6
Selects modulator type




TEST and COMM. settings are
latched only at power-up.

LOAD setting can be changed
during run time.




POWER LED:

	Wireless power present (Blue Solid)
	Wireless power removed (OFF)

STATUS LED:

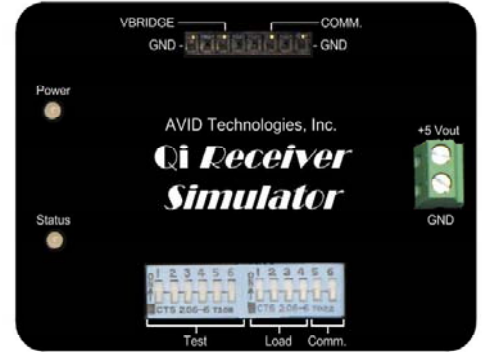
	Output power good (Green Solid)
	Output power good External load detected Internal load disabled (Amber Solid)
	Test complete. Expecting transmitter to end power transfer (Red Solid)

ERROR BLINK PATTERNS:

	Over temperature (Red Single Blink Pattern)
	Output overload (Red Double Blink Pattern)
	Input over voltage (Red Triple Blink Pattern)

Qi Receiver Simulator

Quick Start Guide



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TEST Switch Settings

0	000000	Default WPC Receiver (min. messages in Config. Phase)
Comm. Data Bit Rate		
1	000001	Comm. data bit rate (-30 %)
2	000010	Comm. data bit rate (-10 %)
3	000011	Comm. data bit rate (-4 %)
4	000100	Comm. data bit rate (+4 %)
5	000101	Comm. data bit rate (+10 %)
6	000110	Comm. data bit rate (+30 %)
Packet Timing		
7	000111	Invalid time between messages in Config. Phase
8	001000	Sends 1st CEP late
9	001001	Sends 2nd CEP late
10	001010	Sends CEP at min. intervals
11	001011	Requests 50ms Power Ctrl. Hold-off Time
Packet Data / Order		
12	001100	Sends no comm. packets
13	001101	Sends no Rectified Power Packets
14	001110	Sends invalid checksum in all messages
15	001111	Sends invalid checksum in ID Message only
16	010000	Sends proprietary packet first instead of Signal Strength
17	010001	ID Message not sent
18	010010	Sends Power Ctrl. Holdoff Msg. after Config. Msg.
19	010011	Sends maximum optional messages in Config. Phase

20	010100	Sends invalid WPC spec. version (v0.1)
21	010101	Sends a reserved packet in Config. Phase
22	010110	Sends reserved packets in Power Transfer Phase
23	010111	Requests invalid Power Ctrl. Hold-off Time (210ms)
End Power Transfer (EPT)		
24	011000	First message sent is EPT: Charged
25	011001	EPT: Battery Fault *
26	011010	EPT: Charged *
27	011011	EPT: Internal Fault *
28	011100	EPT: No Response *
29	011101	EPT: Over Current *
30	011110	EPT: Over Temperature *
31	011111	EPT: Over Voltage *
32	100000	EPT: Reconfigure *
33	100001	EPT: Unknown *
Misc. Tests		
34	100010	Sends only negative error packets
35 - 63		Reserved

* Message sent 2 sec. after power transfer starts.

LOAD Switch Settings

0	0000	0.00 W internal load
1	0001	0.25 W internal load
2	0010	0.50 W internal load
3	0011	0.75 W internal load
4	0100	1.00 W internal load
5	0101	1.25 W internal load
6	0110	1.50 W internal load
7	0111	1.75 W internal load
8	1000	2.00 W internal load
9 - 15		Reserved

COMM Switch Settings

0	00	Capacitive AC modulator
1	01	Resistive AC modulator
2	10	Resistive DC modulator
3	11	Reserved

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