Rhein Tech Laboratories, Inc. 360 Herndon Parkway Suite 1400 Herndon, VA 20170 http://www.rheintech.com

Client: Capacitec, Inc.
Model: PC1000RF
Standard: FCC 15.247
FCC ID: WQV-PC1000RF
Report #: 2008138

Appendix I: Manual

Please refer to the following pages.

Capacitec

PC1000RF Transceiver Module

Specifications:

Frequency: 2400 to 2485 MHz

RF Channels: 16

Supply Voltage: 2.5 to 6V
 Transmit current: 35.5 mA
 Receive Current: 35.5 mA

Data Rate 250 kbps

Sleep current: < 1 uA *

Operational temperature:-40 to +85C

Receive:

- Sensitivity with Pre-Selector -96 to -92 dBm
- Sensitivity No Pre-Selector -99 to -95 dBm
- High-side & Low-side adjacent channel rejection IEEE 802.15.4 signal at -82dBm 35 dB
- 2ed high & Low side adjacent channel rejection IEEE 802.15.4 signal at -82dBm 43 dB
- Channel rejection for all other channels IEEE 802.15.4 signal at 82dBm
 40 dB
- 802.11g rejection centered at + 12MHz or 13MHz IEEE 802.15.4 signal at
- -82dBm 40 dB

Transmit:

- Maximum output power (boost mode) At highest power setting 5 dBm
- Maximum output power at highest power setting 0 dBm Min 3 d Max
- Minimum output power At lowest power setting 32 dBm
- Maximum input signal level for correct operation (low gain) dBm
- Image suppression 30 dB
- RSSI Range -90 to -30 dB
- Maximum output power (boost mode) At highest power setting 5 dBm
- Maximum output power At highest power setting (normal mode) 0 t dBm

Applications:

- Home Automation
- Wireless sensor networks
- Lighting controls
- Heating and Air controls
- Security & Fire and Safety
- Wireless Data networks
- Medical, Industrial, commercial

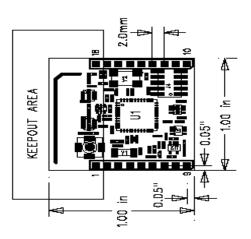
Benefits:

- Long Battery Life
- Low Cost
- Ease of integration
- Self healing network
- Replace Wires

Internal RC oscillator only

Capacitec

PC1000RF Transceiver Module



Capacitec

PC1000RF Transceiver Module

FCC Information

- 1. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- 2. For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: 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 or more 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.

Since the FCC ID is on the bottom of the module, the equipment the module is installed into must contain a label that states: "Contains FCC ID; WQV-PC1000RF".

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. this device may not cause harmful interference, and
- 2. this device must accept any interference received, including interference that may cause undesired operation.