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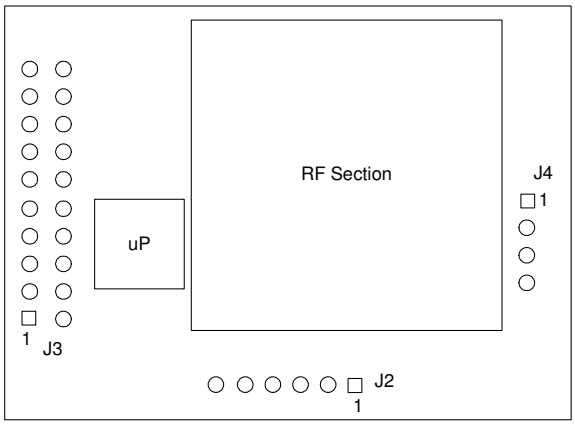
RF Module User Manual

HTC Product #	Doc #	Rev.	Date	Prepared by
xxxxxx-xx	EDR119	C	2/6/06	Oron Brokman

Follow the instructions below when integrating the module into the final product in order to make sure the final product complies with FCC requirements.

1. Use the module with the approved antennae only: use either a wire antenna or Antenna Factor's p/n ANT-916-CW-RH, or Antenna Factor's p/n ANT-900-MHW-RPS.
2. The power output at the RF connector should not exceed 250mW for the approved 0dB gain antennae and it should not exceed 125mW for the 3db antenna – the antennae listed above.
3. The voltage supply to the power amplifier should not exceed 3.6V +/- 0.2V.
4. Supply voltage to the VCC and VBAT pins should not exceed 3.6V +/- 0.2V.
5. All I/O pins are CMOS type. Current source/sink is 20mA max.
6. Connectors descriptions:
   a. J1 – used for antenna connection.
   b. J4 – used for mechanically supporting the module to the board with which it interfaces.
   c. J2 – used for in circuit programming of the microprocessor using Microchip's ICD2 or equivalent.
   d. J1 – used for interfacing the module to the outside circuitry. For further pin functionality, refer to the schematic drawing and the data sheet of the microprocessor.



Compliance Statement (Part 15.19)
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.

Warning (Part 15.21)
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Responsibility to the FCC Rules and Regulations

WARNING! This module is to be installed only in Heat Timer Corporation's end products by Heat Timer Trained Personnel, and shall not be offered to 3rd party OEM integrators or the general public.

The RF Module has been certified per FCC Part 15 rules for integration into products without further testing or certification.

The RF Module is labeled with its own FCC ID Number. If the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following:

"Contains Transmitter Module FCC ID: QPI-RFMODULE01"
or
"Contains FCC ID: QPI-RFMODULE01"

The RF Module must only use the approved antenna, which has been certified with this module.

The final product configuration must be tested to comply with Unintentional Radiator Limits before declaring FCC compliance per Part 15 of the FCC rules.

Industry Canada Statement
The term "IC" before the certification / registration number only signifies that the Industry Canada technical specifications were met.

Section 5.5 of RSS-210
This device has been designed to operate with an antenna having a maximum gain of [3] dB. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is [50] ohms."

Section 5.11 of RSS-210
To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that required for successful communication.

The module is to be installed only in Heat Timer Corporation's end products by Heat Timer Trained Personnel, and will not be provided to 3rd party OEM integrators.

To comply with FCC's RF exposure limits for general population/uncontrolled exposure, the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons.

The antenna used for this module must not be collocated or operating in conjunction with any other antenna or transmitter.