



CAEN RFID srl

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Object: RF exposure info for R1170IUNFHP - qIDmini - Keyfob Bluetooth UHF NF RFID
Reader (FCC) with HID profile
FCC ID: UVECAENRFID023

R1170IUNFHP product is a handheld device and so the RF exposure evaluation is performed according to KDB 447498 D01 document "RF EXPOSURE PROCEDURES AND EQUIPMENT AUTHORIZATION POLICIES FOR MOBILE AND PORTABLE DEVICES".

1) BLUETOOTH TRANSMISSION

The maximum peak conducted power from the BLUETOOTH module (FCC ID: T9J-RN42) is 4mW so the SAR exclusion threshold for 5mm separation distance is not exceeded (10mW @ 2450MHz according to Appendix A of KDB 447498 D01).

2) RFID TRANSMISSION

When the device transmits for RFID operation it shall be held in the operator hand so the 10-g Extremity SAR Test Exclusion Power Thresholds can be applied. In addition the distance between fingers and antenna shall be greater than 15mm otherwise the device is not able to read RFID tags.

The average time of occupancy of each RF channel is 70ms, so within 20s period the device transmits for 3.5s time duration (duty cycle = 17.5%). Since the maximum peak RF conducted power transmitted by RFID section of the device is 500mW, the time averaged transmitted power is 87.5mW. This value does not exceed the 10-g Extremity SAR Exclusion Threshold for 15mm separation distance (117.5mW @ 900MHz according to Appendix A of KDB 447498 D01).