

Radiation Hazard Assessment

Date	30 th January 2025
FCC ID	UAURMEDFBT
Brand Name	ICT Protégé
Model Number	RME-DFBT
Product	Rear Mount Electronic Reader.
Manufacturer	Integrated Control Technology Ltd. (ICT)
Country of Origin	New Zealand
Serial Number	Sample not serialised

Product Description:

The device that was tested is a Wireless Door Lock device which is triggered using an access card that operates on 13.560 MHz

The device also contains a Bluetooth device.

The product is powered using a 4.0 Vdc internal battery (3 x 1.5 Vdc dry cell batteries) this are replaced every two or three years.

FCC part 15 testing as detailed in EMC Technologies NZ Ltd test report number 241102.1 dated 15th December 2024 shows the following:

13.560 MHz transmitter with a field strength of 42.6 dBuV/m (Quasi Peak detector) at a test distance of 10 metres

This equates to a radiated power of -42.2 dBm which is the same as 0.00006 mW

2.4 GHz Bluetooth transmitter with a field strength of 74.1 dBuV/m (Peak) at a test distance of 3 metres.

This equates to a radiated power of -21.1 dBm which is the same as 0.00771 mW

These two transmitters comply with the field strength limits contained with FCC Part 15 sections 15.225 and 15.249.

As per FCC KDB 447498 D04 and Section 2.1091 radio frequency transmitters are required to be operated in a manner that ensures the public is not exposed to high levels of RF energy.

In normal use the transmitters in this device are likely to come in close contact with the human body, the hand, when cards are placed in or near the device when a transaction is carried out.

As the 13.560 MHz and 2.4 GHz transmitters individually have radiated powers below 1 mW they will be exempt.

When the transmitters are summed ($0.00006 \text{ mW} + 0.00771 \text{ mW}$) the total will also be less 1 mW (0.00777 mW)

This device will therefore be exempt as the power level will be less than 1 mW.

Result: Complies