

## **Antenna Description**

The NFC antenna is not a typical RF antenna and has been custom designed by Invenco Group Ltd.

The antenna in this device is an inductor coil type of antenna as can be seen in the photos.

The impedance of the antenna has been determined but the gain has not been determined, as it is not a parameter that is usually considered for this type of antenna.

When a card is presented near the NFC antenna it detunes the antenna.

The radiation efficiency of the antenna can be considered as 0.

An estimation of the gain of this type of antenna operating at 13.560 MHz would be less than 1 which would nominally equate to a gain of less than -10 dB.