

The invention claimed is:

1. Electronic module for a contactless smart card or dual contact and contactless smart card comprising at least a first antenna, a second antenna, a third antenna and a microelectronic chip, characterized in that:

said microelectronic chip comprises a microprocessor, at least a first contact, a second contact, a third contact, a fourth contact, a first tuning capacitor connection between the first contact and the third contact, a second capacitor connected between the second contact and the fourth contact, said first and third contacts being connected to the inputs/outputs of the microprocessor and being configured to transmit to said microprocessor a radio-frequency communication signal exchanged through the antennas,

said first antenna is connected between the first contact and the third contact and is configured to be brought into resonance by said first capacitor,

said second antenna is connected between the second contact and the fourth contact and is configured to be brought into resonance by said second capacitor in order to capture the energy transmitted by induction by a remote reader,

said third antenna is connected in series with said second antenna between the second contact and the fourth contact for transmitting the captured energy to the

microelectronic chip and is coupled with the first antenna for transferring to the microelectronic chip through the first antenna the energy captured by the second antenna, and

wherein said third antenna is magnetically coupled to said first antenna.

2. Electronic module according to claim 1, wherein the second capacitor is a variable capacitor.

3. Electronic module according to claim 1, wherein the microelectronic chip comprises a variable resistor connected in series with the second capacitor between the second contact and the fourth contact.