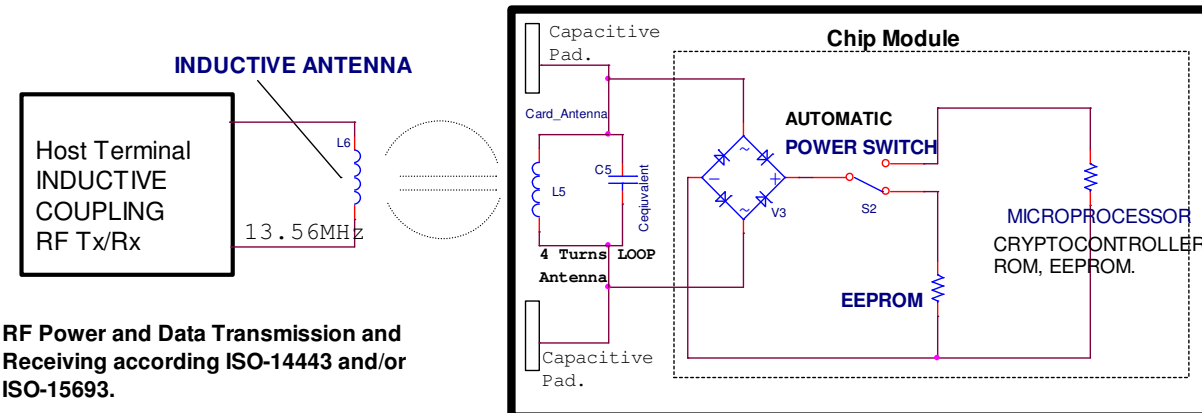


DUAL INTERFACE HERMETICALLY SEALED SECURE CONTACTLESS SMART CARD.

Dual interface contactless smart card performs operation at two different carrier frequencies of the energy-transmitting electric field.

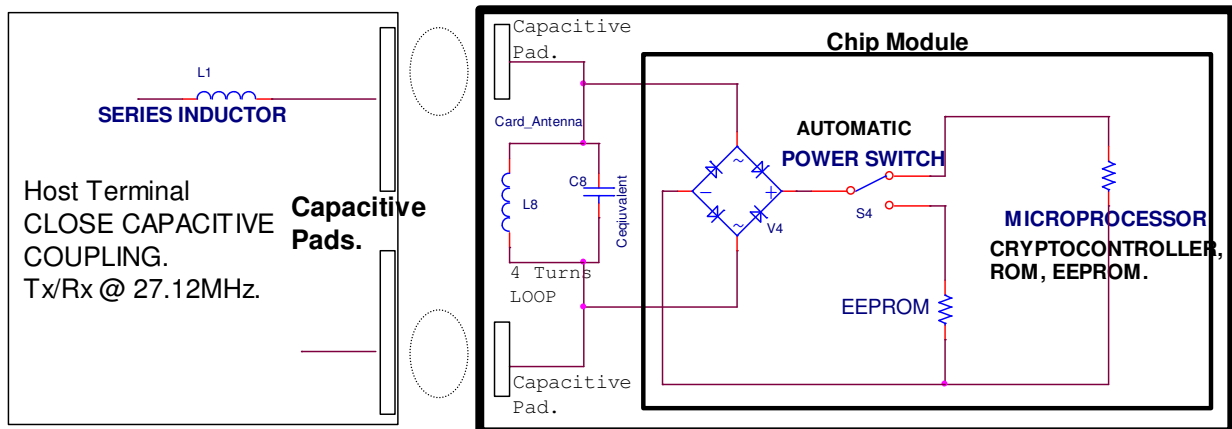
First frequency is designed for the proximity or vicinity operation and second frequency is destined for the close coupling operation.

Dual Interface Smart Card operation in proximity or vicinity mode using Loop Antenna.



First frequency corresponds to the parallel resonance combined by parallel alignment of the smart card loop antenna (e.g. inductive coil) and the distributed capacitance of the smart card capacitive pads.

Dual Interface Smart Card operation in close coupling mode using Capacitive Pads.



Power Transmission Using Series Resonant Mode.

Data interchange is the product of the power signal modulation.

Data comply with ISO/IEC-7816 interindustry signals, security protocols and commands.

Second frequency corresponds to the frequency of the series resonant circuit associated with the series alignment of the additional terminal inductance and joint capacitance of the terminal capacitive pads with the smart card capacitive pads, when card is attached to terminal.

Contact:

Alexander Rozin

E-mail: raisin_l@017.net.il

Tel.: 972-52-3814525

Address: POB 11043, Jerusalem, 91110, Israel.