

## **DESCRIPTION OF UNIT**

The unit is used to contactlessly program passive RFID (Radio Frequency Identification Device) tag that is operating at 125 kHz. In general, RFID tag consists of a small antenna coil, RFID device (silicon chip), and package. Passive RFID tag operates without battery. It is energized by RF signal transmitted from reader (or programmer).

To program RFID tag, the tag must be on the top of the unit. The unit transmits a blank check signal for a few hundred micro seconds to determine whether the tag is a blank or already programmed. If it is blank, the unit transmits a programming signal for a few milliseconds ~ seconds. If it is not blank, the unit does not transmit programming signal.

The unit (programmer) transmits signals only after receiving a command from host computer. Otherwise, it remains in dormant. The host computer software that operates the unit is “RFLab”.