

693-52 USB 125kHz Proximity Card Programmer

Data Sheet

Overview

The 693-52 Card Programmer will encode a 125kHz read/write card with a user defined ID number. In addition the card programmer can be used to write up to 100 bits of user data to the card. It can also write to the configuration option registers available on the card. A USB interface is used to communicate between the unit and a PC. When plugged into the PC the device enumerates as a virtual serial port. Windows compatible PC software is provided to operate the card programmer.



Applications

- Programming of blank read/write cards for use as read only cards.
- Duplication of read only cards.
- Programming ID number and mode bytes (block 0) of blank read/write cards for use in read/write systems.
- Programming unique "signature" into cards to prevent duplicate cards working on high security readers.
- Preset user data areas of a read/write card for use in read/write systems.

Specifications

- Power requirements - USB bus powered - 4.40V - 5.25V. Current consumption is typically 60 mA.
- RF Frequency: 125 kHz.
- Read/write tags supported: TEMIC e5550 series, Atmel ATA55xx, Sokymat Q5, and equivalent devices.
- Programmed 40 bit ID number format is EM H4001 compatible: 64 bits (includes parity), ASK, manchester encoding, RF/64 bit rate
- ID programmed into blocks 1 and 2 of read/write card and can be "locked" to prevent changes.
- Blocks 3-7 of read/write card available for 100 bits of user data (format proprietary).
- Serial commands available to read and program the Mode and Analog Front End Option registers.
- Communication interface: USB 2.0 - when connected to the PC the device enumerates as a standard COM port by using the standard Windows driver "usbser.sys" for CDC class USB devices.
- USB connector: type B
- Yellow LED indicates power on, and Green LED indicates successful operation.
- Physical dimensions: 154mm x 84mm x 38mm
- Operating temperature: 0 - 50 °C (non-condensing).
- User permitted to write own software. Low level serial command specification available on request.