



EM4094 RFID Demo Reader



Description

The EM4094 RFID Demo Reader is a 13.56MHz proximity reader compliant with the ISO15693 and ISO14443 standards.

The reader supports the mandatory, optional, custom and proprietary commands of EM Microelectronic's ISO15693 compliant transponder ICs (EM4034, EM4035, EM4135) as well as the EM4006 Read Only IC.

Moreover, the mandatory command set of ISO14443 Type A, B and Sony Felica™ is implemented in the reader firmware.

A SIM slot on the reader and the corresponding SIM card featuring EM4035's crypto algorithm allows performing security relevant commands. The 4 secret keys and the transponder's memory segmentation can be set with a PC application shipped with the reader.

The EM4094 RFID Demo Reader hardware is based on the EM4094 reader IC, an analog front-end device which delivers a RF power of 200mW to the PCB's printed antenna.

The EM4094 reader is a reference design for beginners or experts. On the CD ROM, the user will find all necessary support material (hardware and software) to design and build a custom 13.56MHz RFID reader.

The reader firmware can be upgraded via the USB port. The latest documentation versions are published on EM Microelectronic's website: www.emmicroelectronic.com.

Reader items

- RFID Demo Reader
- 7.5V AC/DC power supply
- EM4034 & EM4035 tags in credit card format (2 parts)
- SIM card containing the EM4035 crypto algorithm
- USB cable
- CDROM

CDROM content

- User's Guide
- Microcontroller source code files written in C language
- USB drivers
- Unified application software for ISO15693 and ISO14443 standards including source files in C++
- Hardware schematic and PCB Gerber Files (Layout)
- Product data sheet
- Application Notes

Ordering Information

To order, please, use exact Part Number:

Description	Part Number
EM4094 RFID Reader	EMDB408

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