



EM4094 RFID Reader



General Specifications

The EM4094 RFID Reader supports the following transponder ICs (single ISO credit card size transponder reading range):

EM4035 CRYPTO ISO15693 Compliant Contactless Identification Device (8 cm)

EM4135 ISO15693 Standard Compliant Contactless Identification Device (8 cm)

EM4034 ISO15693 Standard Compliant Contactless Read-Write Identification Device (8 cm)

EM4006 Read Only Contactless Identification Device (2 cm)

ISO14443-3 Type A Contactless Transponders (2 cm)

ISO14443-3 Type B Contactless Transponders(2 cm)

Description

The EM4094 RFID Reader is designed for a quick step into 13.56MHz RFID System designs.

It supports all the Mandatory, Optional, Custom and Proprietary ISO15693 commands of 13.56MHz EM Microelectronic Marin transponder ICs. A mandatory command set of ISO14443-3 Type A and Type B is also implemented.

To protect and define the EM4035 tag memory right access, a crypto engine with customer's own keys is provided by Theseus Gold EMTG56 SIM card. The Theseus Gold EMTG56 SIM card integrates the EM4035 crypto features and user's secret keys.

The EM4094 RFID Reader hardware is based on the EM4094 transceiver IC which drives an internal PCB

printed antenna to communicate with the tag. The connection between the kit and the user's computer is realized via USB port.

Reader items

- Reader base station
- 7.5V AC/DC power supply (2 versions for 110-220V AC)
- 2 tags in a credit card format (EM4034 & EM4035)
- EMTG56 SIM card with crypto engine
- 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
- Product Datasheets
- Application Notes

Ordering Information

To order, please, use exact Part Number:

Description	Part Number
EM4094 RFID Reader (220V AC version)	EMDB408-E
EM4094 RFID Reader (110V AC version)	EMDB408-U

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