EM4095 RFID Reader

Description

The EM4095 RFID Reader is a 125kHz Radio Frequency Identification Device proximity reader.

The reader supports the following transponder ICs:

EM4100 / EM4102: 64 bit Read Only contactless Identification Device

EM4005 / EM4105: ISO11784 & ISO11785 compliant Read Only contactless Identification Device

EM4450 / EM4550: 1k bit Read/Write transponder IC

EM4469 / EM4569: 512 bit Read/Write multi-purpose transponder IC

The RFID Reader hardware is based on the EM4095 transceiver IC which is connected to a PCB printed antenna on single board.

The EM4095 RFID Reader is a reference design for beginners and experts. On the CD ROM, one will find all the support material (hardware and software) to realize your own 125kHz RFID coupler.

Three PC software programs are provided on the reader CD ROM. With these application programs, one has the possibility to:
❑ Have access to the tag memory and secure features
❑ Emulate an EM4100/EM4102 read only
❑ Program the IC according to ISO11784/11785 standard (animal tagging).
The reader firmware can be upgraded via the USB port.

All the latest documentation versions are published on EM Microelectronic website www.emmicroelectronic.com

Reader items

❑ Desktop reader base station
❑ 7.5V AC/DC power supply (2 versions for 100-240V AC)
❑ EM4100, EM4450, EM4469, EM4026 tags credit card
❑ USB cable
❑ CDROM

CDROM content

❑ User's Guide
❑ Microcontroller firmware (written in C language)
❑ Unified application software to configure, read and write informations inside the supported tag memories
❑ Read Only application software to emulate an EM4100/EM4102 read only with an EM4469 / EM4569 transponder IC
❑ Animal application software to configure an EM4469 / EM4569 according to ISO11784/11785 standard. Fully compliant with the EM4005 / EM4105 transponder ICs
❑ Hardware schematic and PCB Gerber Files (layout)
❑ Product Datasheets
❑ Application Notes

Ordering Information

To order, please, use exact Part Number:

Description	Part Number
EM4095 RFID Reader (220-240V AC version)	EMDB409E
EM4095 RFID Reader (100-120V AC version)	EMDB409U