# EUTRON
## INFOSECURITY

# SIMReader
## Combo

**SIMReaderCombo** is the innovative SIM Card reader, in a USB form factor, which offers the following functions:

SIM Card Reader + USB memory

Thanks to its small size, SIMReaderCombo is a pocket device that combines the functions of a SIM Card reader to a mass storage device - up to 512MB capacity. The flash memory area on the device can be accessed both for reading and writing, as it operates as an additional logic unit; for further security, the access can be protected by means of a password and the whole memory area can even be partitioned.

The compact size and the USB jack make the SIMReaderCombo a Smart Card reader easy to carry about meeting the growing need for data and application transferability.

The device is supplied with a license of SIMEdit free of charge; SIMEdit is the well known software by Compelson Labs that permits all GSM users to modify, copy or save all information stored in a SIM card by means of a PC.

### High-Speed

Based on revolutionary chip technology, jointly developed with Atmel, the portable SIMReaderCombo supports reader-to-card data transmission rates of up to 420 KBits per second, exceeding the performance of other smart card readers.

### Standards

Because the SIMReaderCombo complies with all relevant industry standards (ISO 7816, EMV (Europay, Mastercard, Visa) 2000, Microsoft® WHQL, USB CCID, PC/SC, HBCI (Home Banking Computer Interface, the PC-2001 Specification and many more) it is open for any smart card on any computer for any application.

### Applications

Applications for the new reader include download of GSM applications from the Internet to the SIM card, logical access control, PKI for mobile users, digital signature, secure mobile banking and online transactions, loyalty programs, healthcare solutions and many more future applications.

The usage within an application is based on standardized interfaces like PC/SC, OCF (Open Card Framework) or CT-API. The SIMReaderCombo is CCID-compliant and features a full-speed USB 2.0 interface. With CCID drivers becoming a standard feature on many operating systems, the SIMReaderCombo can simply be plugged into a USB port and automatically be recognized by the system.

**Technical specifications:**

**Host Interface**
USB 2.0 CCID (also compliant with USB 1.1)
Transmission rate: 12 Mbps
Power supply: USB Bus powered

**Smart Card Interface**
Compliant with ISO 7816 and EMV 2000 Level 1
Supports T=0, T=1
Supports 2-wire (SLE 4432/42), 3-wire (SLE4418/28), SLE 4404
Supports I²C (S=8)
Card Size: ID-000 (SIM size)
High performance smart card interface (up to 420 Kbps when supported by card)
Smart card clock frequency up to 8 MHz
Supports 5V, 3V and 1.8V smart cards
Supplies 60 mA current to power the smart card
Smart card movement detection with auto power-off
Automatic detection of smart card type
Short circuit and thermal protection

**Flash memory**
Available storage capacity: 128MB - 256MB - 512MB
The memory can be partitioned into up to 8 areas among the five different following types:

- Mass Storage, where data can be saved
- CD-ROM, with Autorun function
- Write Protected Mass Storage, that is read-only
- Read and Write Protected Mass Storage
- Encrypted Mass Storage, based on AES 256 bit

**Other Features**
LED status indicator

**Add-on: SIMEdit!**

- Editing of GSM SIM contents via PC
- Complete management of the phone book (copy, modify, search, transfer, sort, export and import of contacts)
- Generation, sending and storage of SMS messages
- SIM backups
- Unlock of card via PUK
- Change of card PIN
- Printing of SIM contents

**Options**
Customer specific logo or label or housing colour on request

**Compliance**
Microsoft® WHQL certified, EMV 2000 Level 1 certified, ISO 7816, HBCI, USB 2.0 (1.1 compatible)

**API**
PC/SC driver - CT-API (on top of PC/SC) - OCF (on top of PC/SC)

**PC/SC Driver Support**
Windows® 98, ME, 2000, XP, Linux®

**Embedded Technology**
CardMan® Smart@Link Chip Set

**Hardware Specifications**
Dimensions : 74 x 21 x 10 mm
Weight: 15 gr
Operating temperature: 10-55°C
Operating humidity: 10-90% rH
Composition: PC Lexan
Durability: 100,000 insertions
Meantime between failure (MTBF): 500,000 Hours

**Safety and Environmental Standards**
CE, FCC, UL

---

**Functions supported:**

- Flash memory for data and application transfer
- SIM Card reader
- Partitioning of the memory
- Handling of GSM SIMs via the SIMEdit software

---