

ACR38DT DualKey

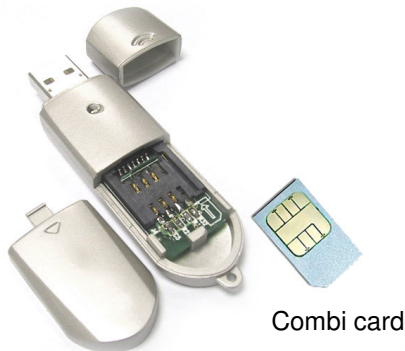


TECHNICAL SPECIFICATIONS

Version 1.3 09-2004

ACR38DT DualKey

1.0 Introduction



Due to the rising demand of e-working methods (remote office, home office...) and snowballing hacking likeliness, it is the time to properly secure access to PCs, desktops, Intranet & Extranet networks and physical access control. ACR38DT offers both solutions based on SIM-sized **combi smart card** (contactless and contact card) for logical and physical access control.

The ACR38DT Contactless/Contact DualKey is an extension of ACR38T SIMTracker II. It has full ACR38T functionalities with contactless value-added feature.

i) Serves as a plug-in (SIM-sized) card reader:

It is an extremely compact USB full speed device completely compatible with the ACR38 smart card

reader and is designed to access SIM-sized smart cards (Plug-in card). With a size of only 82.5 mm x 21.3 mm x 9.4 mm, the ACR38DT is highly suitable for portable applications, as it plugs into the USB port and requires no additional cable or wiring. It also fulfils the GSM 11.11 specification. It is designed for PC environment, ultimate smart card peripheral for a PC.

ii) Serves as a contactless card:

While the ACR38DT serves as a contactless card, the embedded antenna coil enables the contactless part of the SIM-sized combi dual to work as a contactless card to communicate with contactless readers.

ACR38DT DualKey is a good quality, reliable and effective reader with designs focusing on convenient use and harmony with other PC peripherals in terms of shapes and colors. It is ideal for electronic commerce, physical access control, home banking or e-purse facilities, secure computer access, transportation and GSM application tool.

2.0 Features

- **USB full speed** interface to PC with simple command structure
- Support Plug-in SIM-sized card
- Read and write all microprocessor cards with T=0 or T=1 protocol
- Support SLE 4418/28/32/42 memory cards
- Support the most common memory-based smart cards, including **I2C bus protocol cards** (from 1k bits up to 1024k bits) and secure memory cards (**Atmel AT88SC153 and AT88SC1608**)
- Support **1.8V, 3V and 5V** MCU cards
- Support GSM 11.11 specification
- Require no additional cable
- Short Circuit Protection
- ISO 7816-1/2/3, PC/SC, CE, FCC
- ISO7816-1/2/3 compatible smart card interface
- Embedded antenna coil
- Full functionality with SIM-sized Combi card in contact and contactless interface
- Support PPS (Protocol and Parameters Selection) with 1743 – 307200 bps in reading and writing smart cards
- A patented technology combines physical and logical access control capabilities

3.0 Typical Applications

- Home Banking
- E-commerce
- Network access control
- Digital signature
- Identification
- Ticketing
- Parking and toll collection
- Online gaming
- Transportation
- Physical access control



Serves as a contactless card - Physical access control

4.0 OEM possibility

The ACR38DT DualKey is available for custom branding for promotion purposes. OEM enquiry is welcome. Casing color can be easily defined, and your own logo or design can be printed. We can also make other adaptations according to your requirements.

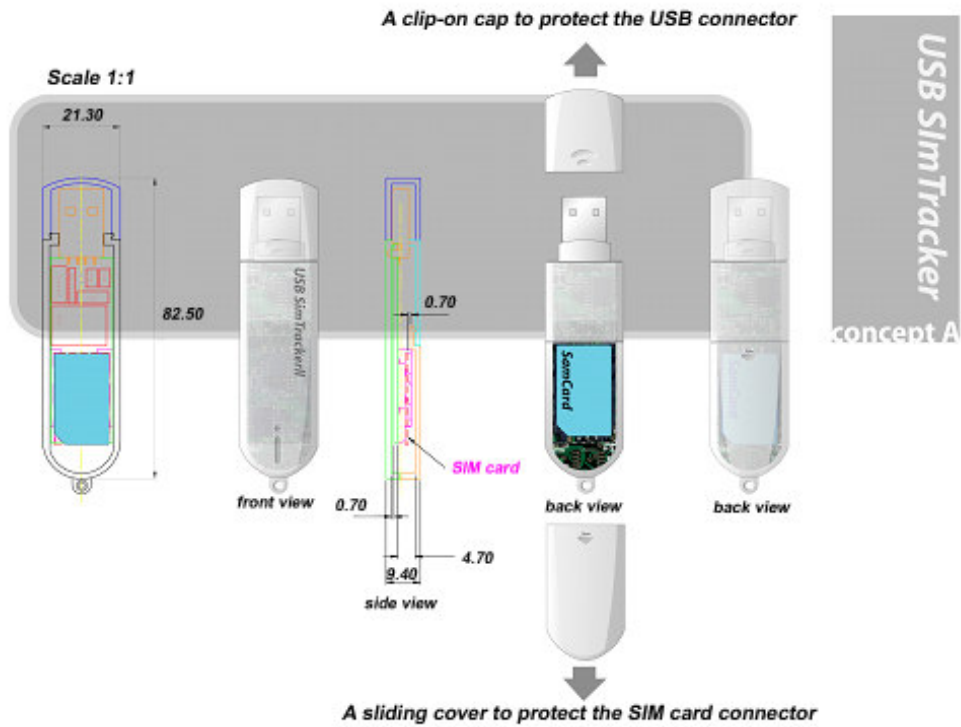


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5.0 Technical Specification



Universal Serial Bus Interface

Type USB full speed, four lines: +5V, GND, D+ and D-
 Power source From USB

Smart Card Interface

Standard ISO 7816 1/2/3, T=0 and T=1
 Supply current max. 50mA
 Smart card read / write speed 1743 – 307200 bps
 Short circuit protection +5V / GND on all pins
 The presence of the smart card power supply voltage is indicated through a green LED on the reader
 CLK frequency 4 MHz
 Card connector sliding contacts (6 contacts)
 Card insertion cycles min. 100,000

Case

Dimensions 82.5mm (L) x 21.3mm (B) x 9.4mm (H)
 Standard color Silver/golden
 Weight 0.16 kg

Operating Conditions

Temperature 0 - 50° C
 Humidity 40% - 80%

Standard/Certifications

ISO7816-1/2/3, PC/SC, CE, FCC

OS

Windows 98, ME, 2K, XP



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