

# Biocryptodisk

## Biocryptodisk SK102 Biometrics Smart Card Reader & Biometrics Reader with Protector Suite QL



**Biocryptodisk SK102** is a portable biometrics secured Smart Card Reader and a fingerprint biometrics reader. Together with a SIM size smart card, it is a portable biometrics token. It has an autonomous biometrics processor on board to match with live fingerprint and to store fingerprint template within SK102. The user's privacy is protected as the stored fingerprint template can never be extracted or copied.

A user's fingerprint biometric replaces their smart card PIN (Personal Identification Number), serving as the secure method of authentication to activate the smart card and make use of the stored credentials (certificates and public/private keys, user names / password, etc.).

Administration software is available to organization security administrator for recovery and re-use of the device.

**SK102** is bundled with Protector Suite QL.

Protector Suite QL protects the privacy of your computer by

- Replacing password and user name for internet access, etc with a swipe of fingerprint.
- Swiping your fingerprint to power ON and logon Windows.
- Launching commonly used applications with different fingers.
- Swiping your fingerprint to encrypt/decrypt files.
- Supporting RSA SecurID.

### Special Features

Multifactor authentication  
On board fingerprint enrollment and authentication  
Supports Digital Signature (Class 2 reader)  
Common Criteria EAL 3+ certified  
Live and Fake finger detection  
PINs are replaced by fingerprints  
OMNIKEY® Smart@Key Chipset  
Administrator function

### Host Interface

Host Interface                    USB2.0 Full Speed, ICCD  
Transmission Speed            12Mbps  
Power Supply                    Bus Power

### Smart Card Interface

Standards                        ISO 7816 & EMV<sup>2</sup> 2000 Level 1  
Protocols                        T=0, T=1  
   2-wire: SLE 4432/42(S=10),  
   3-wire: SLE 4418/28(S=9),  
   I2C (S=8)  
Card Size                        ID-000 (SIM-size)  
Smart Card Interface Speed    420kbs (when supported by Card)  
Smart Card clock frequency    Up to 8MHz  
Supported card types            5V, 3V and 1.8V Smart Cards  
   ISO 7816 Class A, AB and C  
Power to Smart Card            60mA  
Smart Card detection            Automatic Detection of Smart Card  
   type/Short circuit and thermal  
   Protection  
8 Pin Handling                    C4/C8 supported

### Supported APIs

PC/SC driver (ready for 2.01)  
CT-API (on top of PC/SC)  
Synchronous-API (on top of PC/SC)  
OCF (on top of PC/SC)  
SPE-API (Secure PIN Entry, on top of PC/SC)

### Hardware Specifications

Dimensions (LXWXH)            76.4mmX23.2mmX13.2mm  
Weight                            20g  
Operating Temperature        0C to 50C  
Operating Humidity            10-90% rH  
Composition                    PC  
Durability                        100,000 insertions  
MTBF                              500,000hours

### PC/SC Driver Support

Windows 98/ME, 2000 / XP(32-bit), 2003 Server  
Windows CE 5.0/CE.NET (depending on hardware)  
Windows XP 64bit (AMD64, EM64T, IA64)  
Windows Vista (32bit/64bit)  
Linux  
Mac OS X

### Fingerprint Sensor Specification

CMOS active-pixel technology  
Maximum finger speed            Up to 40cm/s  
Sensor strip (image) width      12.4mm  
Array size                        192 X 4 pixels  
Image resolution                508DPI  
ESD tolerance                    IEC 61000-4-2 Level 4  
   +-15kV air discharge  
   (Sensor surface)  
FAR                                1:1,000,000  
FRR                                1:1000

### Card Reader Compliance/Certification by OMNIKEY®

Microsoft WHQL  
EMV<sup>2</sup> 2000 Level 1  
ISO 7816  
HBCI  
CCID  
Common Criteria EAL 3+

### Safety / Environmental

CE  
FCC  
RoHS

