

## CardMan® 7121 Fingerprint

OMNIKEY, one of the world's leading manufacturers of innovative smart card readers, offers a smart card reader which combines smart card technology with fingerprint recognition. The CardMan® 7121 is a reliable desktop device to connect to a PC via USB. It is especially well suited for logical access control systems in areas with high security demands.



### Fingerprint-Technology

Fingerprint recognition has been a well-known and well-proven method for centuries to clearly identify individuals. Each fingerprint holds very specific characteristics, unique for each person.

For fingerprint recognition, the CardMan® 7121 uses a modern swipe sensor with TruePrint® Technology to read a fingerprint below the surface of the skin, thus providing extreme accuracy and reliability. The durability of the sensor allows for more than 10 million rubs.

The CardMan® 7121 is an open system that enables various constellations and configurations of fingerprint and smart card appliances serving as a combined access control device.

The compatibility to several existing fingerprint recognition and access control systems makes the CardMan® 7121 an excellent device for rolling out and replenishing existing and new logical biometric access security systems.

### Applications

The contact interface is based on the well-known CardMan® 3121 and therefore works with nearly all existing contact smart cards and related applications. Combined with the fingerprint sensor the scope of applications multiplies and increases the security of log-on applications, multifactor authentication with smart cards and fingerprint or pre-boot authentication.

### Standards

The CardMan® 7121 complies with all relevant industry standards including ISO 7816, Microsoft® WHQL, USB 2.0, CCID, PC/SC and HBCI (Home Banking Computer Interface).



## CardMan® 7121 Biometric

### Host Interface

USB 2.0 CCID <sup>1</sup> (compliant USB 1.1)	✓
Transmission Speed	12Mbps
Power supply	Bus powered (Root Hub)

### Smart Card Interface

Compliant with ISO 7816	✓
Supports T=0, T=1	✓
Supports 2-wire (SLE 4432/42), 3-wire (SLE 4418/28)	✓
Supports I <sup>2</sup> C	✓
Card Size	ID-1 (full size)
Smart card interface speed	420 Kbps
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	✓

### Other Features

LED status indicator	✓
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### Options

Customer specific logo or label	✓
Customer specific colors	✓

### Fingerprint

Sensor type	AuthenTec, RF field swipe sensor
Stripe sensor resolution	500 ppi
Detection matrix	192 x 16 pixels
Sensor size	9.75 x 0.81 mm

### Compliance

ISO 7816	✓
USB 2.0	✓
EMV <sup>2</sup> 2000 level 1 certified	✓
Microsoft WHQL <sup>3</sup>	✓
HBCI <sup>4</sup>	✓
RoHS, WEEE	✓

### API

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

### PC/SC Driver Support

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

### Fingerprint Driver Support

Windows® 2000	✓
Windows® XP	✓
Linux®	✓

### Hardware Specifications

Colors	Dark-grey
Dimensions	95 x 75 x 35mm 3.74"x 2.95"x 1.38"
Weight	101 gr/ 3.5 ounces
Operating temperature	0-55°C/ 32-131 °F
Operating humidity	10-90% rH
Composition	ABS
Connector cable	180 cm / 70.9"
Durability (smart card)	100,000 Insertions
Durability (fingerprint)	10,000,000 Rubs
Meantime between failure	500,000 Hours



1= Chip Card Interface Device 2= Europay® MasterCard® Visa® 3= Windows® Hardware Quality Lab 4= Homebanking Computer Interface



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