

RFID Smart Card Reader Technology



CardMan® 5321 User's Manual

CardMan® 5321



User's Manual
English

If you have any technical problems or other questions please
contact our help desk: support@omnikey.com

For latest drivers, visit our homepage: <http://www.omnikey.com>

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Introduction

This manual describes the physical behaviour, short data sheet and conformities of OMNIKEY's CardMan[®] 5321, a combined contact and contactless smart card reader.

To install your CardMan[®] 5321 please follow the steps as described in the "**CardMan[®] 5321 Installation Guide**".

If you are developing applications using CardMan[®] 5321, please refer to the "**CardMan[®] 5321 Developer's Guide**".

For other detailed information please contact the OMNIKEY support: support@omnikey.com

Box content

- Smart card reader with fixed USB cable
- This manual

The required drivers for operating your reader can be found in the internet at <http://www.omnikey.com>

Overview

The CardMan[®] 5321 is a dual interface PC-linked reader that reads and writes both 13.56 MHz RFID contactless smart cards and virtually any contact smart card. The dual interface feature economically supports end-user environments where both contactless and contact smart card technology may be in use.

The CardMan[®] 5321 is a USB plug and play device. The USB cable is fixed to the reader. To connect the reader with your PC, plug the USB connector to an unused USB port of your computer.

When the reader is working the LED on the left is lighting up green. If the reader is not working consult the "CardMan[®] 5321 Installation Manual" for driver setup.



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For using a contact card, put the card with the contacts facing up, in the reader. For contactless operation, hold the card next to the logo on top of the reader.

When the reader is exchanging data with the card (reading or writing) the red LED on the right side is on.

Short Data Sheet

Dimensions	115mm x 95.5mm x 25.5mm (4.53" x 3.8" x 1.0")
Weight (including light base and adapter)	160 gr (5.9 oz.)
Operating temperature	10-55°C (50-131°F)
Operating humidity	10-90% rH
Composition	ABS
PC Connector cable	180 cm (71")
Contact Interface Durability	100,000 Insertions
Meantime between failure (MTBF)	500,000 Hours
Host Interface	USB 2.0 CCID (also supports 1.1)
Host Data Transmission speed	12 Mbps (USB 2.0 Full Speed)
Power supply	Bus powered

Conformance Information

CE Marking

The shipped version of this device complies with the requirements of the directives 89/336/EWG, 73/23/EWG and 1999/5/EG.



Declaration of Conformity

FCC ID: SIYCM5321

IC ID: 5345A-CM5321

This device complies with Part 15 of the FCC Rules and with Industry Canada Radio Standards Specification RSS-210 Issue 5, Section 6.2.2(e) (Category I Equipment).



Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This Class [B] digital apparatus complies with Canadian ICES-003.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.



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- Consult the dealer or an experienced radio/TV technician for help.

Warning: *Changes or modifications made to this equipment not expressly approved by Omnikey GmbH may void the FCC authorization to operate this equipment.*

Declaration of Conformity

This device complies with the Australian/New Zealand Standard AS/NZS 4268:2003 "Radio equipment and systems – short range devices – Limits and methods of measurement".





EC Declaration of Conformity

No. CM5121/12.04
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Manufacturer: Omnikey AG
Address: Am Klingenweg 6a
 D-65396 Walluf
 Germany

Product Description: CardMan 5121


The product described above in the form as delivered is in conformity with the following European Directives:

89/336/EWG	Council Directive on the approximation of the laws of the Member States relating to electromagnetic compatibility. (amended by 91/263/EEC, 92/31/EEC and 93/97/EEC)
73/23/EWG	Council Directive on the approximation of the laws of the Member States relating to electrical equipment designed for use within certain voltage. (amended by 93/68/EEC)
1999/5/EG	Directive of European Parliament and of the council on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity.

Conformity of the directives is assured through the application of the following standards:

Reference number	Edition	Reference number	Edition
EN 61000-3-2	2001	EN 61000-3-3	1995
EN 61000-6-2	2001	EN 61000-3-3A1	2001
EN 60950-1	2001	EN 55022	1998
EN 55024	1998	EN 300330-1	2001
EN 300330-2	2001	ETSI EN 301489-1	2002
ETSI EN 301489-2	2002		

Erfurt, 08.12.2004

Uwe Schnabel
 Member of the board and CTO
Name, function

signature

This declaration certifies the conformity of the specified standards but contains no assurance of properties.