

# OMNIKEY

## Smart Card Readers

- CardMan<sup>®</sup> 3111 Serial
- CardMan<sup>®</sup> 3121 USB
- CardMan<sup>®</sup> 4040 PCMCIA
- CardMan<sup>®</sup> 6121 Dongle



Based on New High Performance Chip Sets  
Worldwide Certifications to All Applicable Standards

## OMNIKEY's CardMan® Family of Smart Card Readers

OMNIKEY's CardMan® product family supports the use of smart cards for PC-based applications such as logical access control, digital signature, GSM authentication, PKI, secure banking and online transactions, loyalty programs, and healthcare solutions. Used with PCs, notebooks, servers, personal organizers, and set-top boxes, OMNIKEY offers a diversified product portfolio to meet various requirements. To see the complete product portfolio, visit our webpage or contact us directly [see back cover].

|                                                                                                       | CardMan<br>3111       | CardMan<br>3121                 | CardMan<br>4040 | CardMan<br>6121                 |
|-------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------|-----------------|---------------------------------|
| <b>Host Interface</b>                                                                                 |                       |                                 |                 |                                 |
| Serial (RS232, COM port)                                                                              | ✓                     |                                 |                 |                                 |
| USB 2.0 CCID <sup>1</sup><br>(also compliant with USB 1.1)                                            |                       | ✓                               |                 | ✓                               |
| PCMCIA                                                                                                |                       |                                 | ✓               |                                 |
| Transmission speed                                                                                    | 115 Kbps              | 12 Mbps<br>(USB 2.0 full-speed) | 16 Mbps         | 12 Mbps<br>(USB 2.0 full-speed) |
| Power supply                                                                                          | PS/2 Keyboard adapter | Bus powered                     | PCMCIA slot     | Bus powered                     |
| <b>Smart Card Interface</b>                                                                           |                       |                                 |                 |                                 |
| Compliant with ISO 7816 and EMV 2000 Level 1                                                          | ✓                     | ✓                               | ✓               | ✓                               |
| Supports T=0, T=1                                                                                     | ✓                     | ✓                               | ✓               | ✓                               |
| Supports 2-wire: SLE 4432/42, (S=10), 3-wire: SLE4418/28 (S=9)                                        | ✓                     | ✓                               | ✓               | ✓                               |
| Supports I <sup>2</sup> C (S=8)                                                                       | ✓                     | ✓                               | ✓               | ✓                               |
| Supports SLE 4404                                                                                     | ✓                     | ✓                               | ✓               |                                 |
| Card size                                                                                             | ID - 1 (full 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                                                                  | ✓                     | ✓                               | ✓               | ✓                               |
| 8 pin handling (C4 / C8 supported)                                                                    | ✓                     | ✓                               | ✓               |                                 |
| <b>Other Features</b>                                                                                 |                       |                                 |                 |                                 |
| Status indicator                                                                                      | Dual color LED        |                                 |                 | LED                             |
| Light vertical base and attachment pad for mounting the reader (i.e., on a monitor)                   | ✓                     | ✓                               |                 |                                 |
| <b>Options</b>                                                                                        |                       |                                 |                 |                                 |
| Heavy base (300gr) or jumbo heavy base (429gr) supporting both horizontal and vertical card insertion | On request            |                                 |                 |                                 |
| Customer specific logo and/or label                                                                   | On request            |                                 |                 |                                 |
| Customer specific colors                                                                              | On request            |                                 |                 |                                 |



We smart you up.

Based on revolutionary chip technology, jointly developed with Atmel, OMNIKEY's 3111, 3121, 4040 and 6121 readers support reader-to-card data transmission rates of up to 420 KBits per second, setting a performance standard in the market. OMNIKEY's readers, which work with virtually any contact smart card, are designed for maximum flexibility and interoperability and comply with all relevant industry standards. OMNIKEY offers free download of driver updates from the webpage at [www.omnikey.com](http://www.omnikey.com).

|                                                         | CardMan<br>3111                         | CardMan<br>3121                         | CardMan<br>4040                        | CardMan<br>6121                         |
|---------------------------------------------------------|-----------------------------------------|-----------------------------------------|----------------------------------------|-----------------------------------------|
| Compliance                                              |                                         |                                         |                                        |                                         |
| Microsoft WHQL <sup>2</sup> certified                   | ✓                                       | ✓                                       | ✓                                      | ✓                                       |
| EMV <sup>3</sup> 2000 Level 1 certified                 | ✓                                       | ✓                                       | ✓                                      | ✓                                       |
| ISO 7816                                                | ✓                                       | ✓                                       | ✓                                      | ✓                                       |
| HBCI <sup>4</sup>                                       | ✓                                       | ✓                                       | ✓                                      | ✓                                       |
| USB 2.0 (1.1 compatible)                                |                                         | ✓                                       |                                        | ✓                                       |
| PCMCIA                                                  |                                         |                                         | ✓                                      |                                         |
| API                                                     |                                         |                                         |                                        |                                         |
| PC/SC driver                                            | ✓                                       | ✓                                       | ✓                                      | ✓                                       |
| CT-API (on top of PC/SC)                                | ✓                                       | ✓                                       | ✓                                      | ✓                                       |
| OCF (on top of PC/SC)                                   | ✓                                       | ✓                                       | ✓                                      | ✓                                       |
| PC/SC Driver Support                                    |                                         |                                         |                                        |                                         |
| Windows® 98                                             | ✓                                       | ✓                                       | ✓                                      | ✓                                       |
| Windows® ME                                             | ✓                                       | ✓                                       | ✓                                      | ✓                                       |
| Windows® 2000                                           | ✓                                       | ✓                                       | ✓                                      | ✓                                       |
| Windows® XP                                             | ✓                                       | ✓                                       | ✓                                      | ✓                                       |
| Windows® CE 3.0 / CE.NET<br>(depending on hardware)     | ✓                                       | ✓                                       | ✓                                      | ✓                                       |
| Windows® NT 4.0                                         | ✓                                       |                                         | ✓                                      |                                         |
| Linux®                                                  | ✓                                       | ✓                                       | ✓                                      | ✓                                       |
| Mac® OS X                                               | ✓                                       | ✓                                       | ✓                                      | ✓                                       |
| Embedded Technology                                     |                                         |                                         |                                        |                                         |
| CardMan Smart@Link Chip-Set                             | ✓                                       | ✓                                       |                                        | ✓                                       |
| CardMan Smart@Bus Chip-Set                              |                                         |                                         | ✓                                      |                                         |
| Hardware Specifications                                 |                                         |                                         |                                        |                                         |
| Colors                                                  | Two-Tone Gray<br>(Standard)             | Two-Tone Gray<br>(Standard)             | Silver                                 | Gray-Blue                               |
| Dimensions                                              | 80 x 67 x 28 mm<br>3.15" x 2.64" x 1.1" | 80 x 67 x 28 mm<br>3.15" x 2.64" x 1.1" | 85 x 54 x 5 mm<br>3.35" x 2.13" x 0.2" | 74 x 21 x 10 mm<br>2.43" x 0.70" x 0.3" |
| Weight (incl. standard base<br>for CardMan 3111 & 3121) | 187 gr<br>6.6 ounces                    | 187 gr<br>6.6 ounces                    | 60 gr<br>2.12 ounces                   | 10 gr<br>0.35 ounces                    |
| Operating temperature                                   | 10-55° C / 32-131° F                    |                                         |                                        |                                         |
| Operating humidity                                      | 10-90 % rH                              |                                         |                                        |                                         |
| Composition                                             | ABS                                     | ABS                                     | Stainless steel                        | PC-Lexan                                |
| Connector cable                                         | 180 cm<br>70.9"                         | 180 cm<br>70.9"                         | No cable                               | No cable                                |
| Durability                                              | 100,000 Insertions                      |                                         |                                        |                                         |
| Meantime between failure (MTBF)                         | 500,000 Hours                           |                                         |                                        |                                         |
| Safety and Environmental Standards                      |                                         |                                         |                                        |                                         |
| CE                                                      | ✓                                       | ✓                                       | ✓                                      | ✓                                       |
| FCC                                                     | ✓                                       | ✓                                       | ✓                                      | ✓                                       |
| UL                                                      | ✓                                       | ✓                                       | ✓                                      | ✓                                       |

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



## CardMan® 3111 and CardMan® 3121

- CardMan 3111: Serial smart card reader
- CardMan 3121: USB reader. Full-speed USB 2.0 CCID support for easy installation (plug and play)
- Fastest smart card reader on the market with up to 420 Kbps data transmission rate
- EMV 2000 Level 1 certified desktop reader
- Works with all major contact smart cards
- Specially designed housing for horizontal or vertical placement, adhesion to PC monitor, etc.
- Company logo or colorized snap-on cover are available on request



Mounting options of the CardMan 3111 and CardMan 3121



Mounting with heavy base



Adhesion with no base



## CardMan® 4040

- Fastest PCMCIA smart card reader on the market with up to 420 Kbps data transmission rate
- EMV 2000 Level 1 certified mobile reader
- PC-card for mobile use in portable computers, notebooks, PDA's or set-top-boxes via PCMCIA slot
- Customized labels are an option



## CardMan® 6121

- Fully functional smart card reader in dongle form for SIM sized smart cards
- High-speed data transmission rate of up to 420 Kbps to the card
- Portable mini reader for W-LAN authentication, PKI for mobile users, digital signature and many more smart card based applications
- Customized colors are an option

# OMNIKEY Smart Card Readers:

designed to support  
**any smart card**  
for **any application**  
on **any computer**



info@omnikey.com  
www.omnikey.com

**OMNIKEY**  
**Headquarters**  
Am Klingenberg 6a  
D-65396 Walluf Germany  
Tel: **+49 6123 7913 0**  
Fax: **+49 6123 7913 28**

**OMNIKEY**  
**Americas**  
9294 Jeronimo Road  
Irvine, CA 92618 USA  
Tel: **+1 949 598 5707**  
Fax: **+1 949 598 5747**

**OMNIKEY**  
**Asia Pacific**  
19/F 625 King's Road  
North Point, Hong Kong  
Tel: **+852 3160 4811**  
Fax: **+852 8161 0070**

For all other countries, please contact OMNIKEY headquarters.

Information subject to change without notice. Copyright 2005 by OMNIKEY. The CardMan name is a registered trademark of OMNIKEY. All other trademarks are the property of their respective owners.

An ASSA ABLOY Group company

ASSA ABLOY

info@omnikey.com

www.omnikey.com