

# OMNIKEY® 5321 USB Reader

Contact and contactless USB smart card reader

- ▶ Versatile Applications – Ideal for end-user environments using both contactless and contact smart card technology
- ▶ Fast Contactless Transmission – Supports contactless smart cards up to 848 Kbps in fastest ISO 14443 A/B
- ▶ Designed for User Convenience – Housing design is optimized for advanced contactless applications
- ▶ Readily compliant – Supports HID® iCLASS® and MIFARE® as well as ISO14443A/B and ISO15693



## ACCESS quality.

The OMNIKEY® 5321 represents the ideal combination of contact and contactless technology in a single device. Featuring a dual interface PC-linked reader that reads/writes to both a 13.56 MHz contactless smart card and virtually any contact smart card, the OMNIKEY® 5321 economically supports end-user environments where both contactless and contact smart card technology are used.

Utilizing contactless smart card technology for PC-linked applications, the OMNIKEY® 5321 device allows users to experience the convenience, speed and security of contactless technology for applications, including logon to Windows®, networks, web sites and applications for the secure storage of user names, passwords and personal information.

- ▶ Supports three ISO standards for contactless cards (ISO 14443 A/B and 15693), and the ISO 7816 and EMV (Europay®, MasterCard®, Visa®), Microsoft WHQL and HBCI (Home Banking Computer Interface) industry standards for contact cards
- ▶ Reader supports contactless smart cards with up to 848 Kbps in the fastest ISO 14443 transmission mode
- ▶ Standard application interfaces include PC/SC, Synchronous-API (on top of PC/SC), OCF (Open Card Framework) or CT-API

Contactless smart cards supported:

- ▶ HID: iCLASS®
- ▶ NXP: MIFARE®, DESFire®, SMART-MX and ICODE
- ▶ Texas Instruments: TagIT®
- ▶ ST Micro: x-ident, SR 176, SR 1X 4K
- ▶ Infineon: My-d (in secure mode UID only)
- ▶ Atmel: AT088RF020
- ▶ KSW MicroTech: KSW TempSens
- ▶ Contactless 2048 bit key generation in RSA mode (JCOP / SMART-MX)

# Specifications

<b>Base Model Number</b>	OMNIKEY® 5321
<b>Dimensions</b>	3.78" x 3.07" x .031" (115 x 96.5 x 25.5 mm)
<b>Weight</b>	Approx. 5.64 oz / 160 g
<b>Power supply</b>	Bus powered
<b>Operating temperature</b>	32°-131° F (0° - 55° C)
<b>Operating humidity</b>	10-90% rH
<b>HOST INTERFACE</b>	
<b>Host Interface</b>	USB 2.0 CCID <sup>1</sup> (also compliant with USB 1.1)
<b>Transmission speed</b>	12 Mbps (USB 2.0 full speed)
<b>CONTACT SMART CARD INTERFACE</b>	
<b>Standards</b>	ISO 7816 & EMV <sup>2</sup> 2000 Level 1
<b>Protocols</b>	T=0, T=1, 2-wire: SLE 4432/42 (S=10), 3-wire: SLE 4418/28 (S=9), I <sup>2</sup> C (S=8)
<b>Card size</b>	ID-1 (full-size)
<b>Smart Card interface speed</b>	420 kbps (when supported by card)
<b>Smart Card clock frequency</b>	Up to 8 MHz
<b>Supported card types</b>	5V, 3V and 1.8V Smart Cards, ISO 7816 Class A, B and C
<b>Power to Smart Card</b>	60 mA
<b>Smart Card detection</b>	Movement detection with auto power-off / Automatic detection of smart card type/ Short circuit and thermal protection
<b>8 Pin Handling</b>	C4 / C8 supported
<b>CONTACTLESS SMART CARD INTERFACE</b>	
<b>Protocols</b>	T=CL, MIFARE®, iCLASS® / ISO 14443 A with 848 Kbps transmission rate (depending on card) ISO 14443 B with 848 Kbps transmission rate (depending on card) ISO 15693 with 26 Kbps transmission rate (depending on card)
<b>Supported APIs</b>	PC/SC driver (ready for 2.01), CT-API (on top of PC/SC, for contact interface), OCF (on top of PC/SC, for contact interface), Synchronous API (on top of PC/SC)
<b>PC/SC Driver Support</b>	Windows® 98 / ME, 2000 / XP (32bit), 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 (for contact interface only)
<b>Status indicator</b>	Dual color LED (green=ready, red=busy)
<b>Reader Board</b>	Also available as PCB
<b>Color</b>	Dark grey
<b>Options</b>	<b>Customer Specific Logo, Label and Colors:</b> Available upon request
<b>Composition</b>	ABS
<b>Connector cable</b>	70.9" (180 cm)
<b>Durability</b>	100,000 insertions
<b>Meantime between failure (MTBF)</b>	500,000 hours
<b>Compliance / Certification</b>	Microsoft® WHQL <sup>3</sup> , EMV <sup>2</sup> 2000 Level 1, ISO 7816, HBCI <sup>4</sup> , USB 2.0 (USB 1.1 compatible), CCID <sup>1</sup> (contact interface only), GSA FIPS 201 approved product list
<b>Safety / Environmental</b>	CE, FCC, UL, RoHS, WEEE
<b>Warranty</b>	Two year manufacturer's warranty. (For drivers, see complete lifetime support policy.)

<sup>1</sup> = Chip Card Interface Device, <sup>2</sup> = Europay® MasterCard® Visa®, <sup>3</sup> = Windows® Hardware Quality Lab, <sup>4</sup> = Home Banking Computer Interface



© 2008 HID Global Corporation. All rights reserved. HID, the HID logo, Omnikey and the Omnikey logo are trademarks or registered trademarks of HID Global in the U.S. and/or other countries. All other trademarks, service marks, and product or service names are trademarks or registered trademarks of their respective owners. Rev. 08/2008 MKT-OMNIKEY\_5321\_DS-EN

**ACCESS experience.**

[hidglobal.com](http://hidglobal.com)

HID Global Offices:

**Corporate North America**  
15370 Barranca Pkwy  
Irvine, CA 92618  
U.S.A.  
Phone: (800) 237-7769  
Phone: +1 (949) 598-1600  
Fax: +1 (949) 598-1690

**Asia Pacific**  
19/F 625 King's Road  
North Point  
Island East  
Hong Kong  
Phone: +852 3160-9800  
Fax: +852 3160-4809

**Latin America**  
Circunvalacion Ote. #201 B  
Despacho 2  
Col. Jardines del Moral  
Leon 37160, Gto.  
Mexico  
Tel: +52 477 779 1492  
Fax: +52 477 779 1493

**Europe, Middle East & Africa**  
Haverhill Business Park  
Phoenix Road  
Haverhill, Suffolk  
CB9 7AE  
England  
Phone: +44 (0) 1440 714 850  
Fax: +44 (0) 1440 714 840