



# OMNIKEY® 5321 V2 USB Reader



## CONTACT AND CONTACTLESS USB SMART CARD READER

- **Versatile Applications** – Ideal for end-user environments using both contact and contactless smart card technology
- **Fast Contactless Transmission** – Supports contactless smart cards up to 848 Kbps in fastest ISO 14443 A / B mode
- **Designed for User Convenience** – Housing design is optimized for advanced contactless applications
- **Readily Compliant** – Supports HID® iCLASS® and MIFARE® as well as ISO 14443 A / B and ISO 15693

### ADDITIONAL PRODUCT FEATURES:

#### CONTACTLESS SMART CARDS SUPPORTED:

- HID: iCLASS® including iCLASS Elite
- NXP: MIFARE®, MIFARE® Ultralight, 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)

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 contact and contactless smart card technologies 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 log-on to Windows®, networks, web sites and applications for the secure storage of user names, passwords and personal information.

\* For driver download, please visit [www.omnikey.com](http://www.omnikey.com).

### FEATURES:

- Supports three ISO standards for contactless cards (ISO 14443 A / B and 15693) and the ISO 7816 and EMV (Europay<sup>®</sup>, MasterCard<sup>®</sup>, Visa<sup>®</sup>), 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
- Supports EMD suppression on contactless interface

### SPECIFICATIONS



<b>Base Model Number</b>	OMNIKEY <sup>®</sup> 5321 V2
<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 <sup>®</sup> , iCLASS <sup>®</sup> / 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 <sup>®</sup> 2000 / XP (32 bit), 2003 Server, 2008 Server, Windows <sup>®</sup> CE 5.0 / CE.NET / CE 6.0 (depending on hardware), Windows <sup>®</sup> XP (64 bit) (AMD64, EM64T, IA64), Windows <sup>®</sup> Vista (32 bit / 64 bit), Windows 7 (32 bit / 64 bit), Linux and Mac <sup>®</sup> OS X
<b>Status Indicator</b>	Dual-color LED (green = ready, red = busy)
<b>Reader Board</b>	Also available as PCB
<b>Color</b>	Dark gray
<b>Options</b>	Customer-specific logo, label and colors: 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 <sup>®</sup> 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, TAA (on request)
<b>Safety / Environmental</b>	CE, FCC, UL, RoHS, WEEE
<b>Warranty</b>	Two-year manufacturer's warranty. (For drivers, see complete lifetime support policy.)

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



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