



## OMNIKEY® 6321 USB Reader



### CONTACTLESS USB SMART CARD READER

- **Versatile Applications** – Ideal for mobile end-user environments using both contact and contactless smart card technology
- **Fast Contactless Transmission** – Supports contactless smart cards up to 848 Kbps
- **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

The OMNIKEY® 6321 USB smart card reader represents the ideal combination of contact and contactless technology in a single mobile device. Featuring a dual-interface, PC-linked reader that reads / writes to both a 13.56 MHz contactless smart card and virtually any SIM-sized contact smart card, the device economically supports mobile end-user environments where both contact and contactless smart card technologies are used.

Utilizing contactless smart card technology for PC-linked applications, the OMNIKEY 6321 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.hidglobal.com/omnikey](http://www.hidglobal.com/omnikey)

## FEATURES:

- Supports three ISO standards for contactless cards (ISO 14443 A / B and 15693) and ISO 7816 standard for contact cards and Microsoft WHQL
- 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
- Features host interface USB 2.0 CCID1 and is compliant with USB 1.1
- Compliant with all relevant safety and environmental standards, including CE, FCC, UL, RoHS and WEEE



## SPECIFICATIONS

<b>Base Model Number</b>	OMNIKEY <sup>®</sup> 6321
<b>Dimensions</b>	3.7" x 1.02" x 0.59" (94 x 26 x 15 mm)
<b>Weight</b>	Approx. 0.59 oz (17 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>SMART CARD INTERFACE</b>	
<b>Standards</b>	ISO 7816
<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-000 (SIM-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), Windows <sup>®</sup> Vista (32 bit / 64 bit), Windows 7 (32 bit / 64 bit), Linux <sup>®</sup> and Mac <sup>®</sup> OS X
<b>Status Indicator</b>	Blue color LED (blue = ready, blinking = busy)
<b>Color</b>	Gray-blue
<b>Options</b>	Customer-specific logo, label and colors: available upon request
<b>Composition</b>	ABS
<b>Durability</b>	10,000 insertions
<b>Meantime Between Failure (MTBF)</b>	500,000 hours
<b>Compliance / Certification</b>	Microsoft <sup>®</sup> WHQL <sup>2</sup> , ISO 7816, USB 2.0 (USB 1.1 compatible), CCID <sup>1</sup> (contact interface only), GSA FIPS 201 approved product list (in preparation)
<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 = Windows<sup>®</sup> Hardware Quality Lab

## ADDITIONAL PRODUCT FEATURES:

### CONTACTLESS SMART CARDS SUPPORTED::

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

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