

# OMNIKEY® 6321 USB Reader

Contact and Contactless USB Smart Card Reader

- ▶ **Versatile Applications** – Ideal for mobile end-user environments using both contactless and contact 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



## ACCESS quality.

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 contactless and contact 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 logon to Windows®, networks, websites 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 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

### 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)

**Supports  
MIFARE®  
Plus!**

<b>Base Model Number</b>	OMNIKEY® 6321
<b>Dimensions</b>	3.7" x 1.02" x 0.59" (94 x 26 x 15mm)
<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®, 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 / 6.0 / 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>	Blue color LED (blue=ready, blinking=busy)
<b>Color</b>	Grey-Blue
<b>Options</b>	
<b>Composition</b>	ABS
<b>Durability</b>	10,000 insertions
<b>Meantime between failure (MTBF)</b>	500,000 hours
<b>Compliance / Certification</b>	Microsoft® 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 (2) year manufacturer's warranty. (For drivers, see complete lifetime support policy.)

<sup>1</sup> = Chip Card Interface Device, <sup>2</sup> = Windows® Hardware Quality Lab



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