HID®

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®
- NXP: MIFARE®, MIFARE® Ultralight, DESFire®, SMART-MX and ICODE (including credentials emulated by mobile phones in NFC card modulation mode)
- NFC Tag Types 1, 2 & 4 (emulated by mobile phones in NFC card modulation mode)
- 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.hidglobal.com/omnikey.

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FEATURES:

- 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

- Supports EMD suppression on contactless interface

SPECIFICATIONS

Base Model Number	OMNIKEY® 5321 V2
Dimensions	3.78" x 3.07" x .31" (115 x 96.5 x 25.5 mm)
Weight	Approx. 5.64 oz (160 g)
Power Supply	Bus powered
Operating Temperature	32–131 °F (0–55 °C)
Operating Humidity	10–90% rH
	HOST INTERFACE
Host Interface	USB 2.0 CCID[1] (also compliant with USB 1.1)
Transmission Speed	12 Mbps (USB 2.0 full speed)
	CONTACT SMART CARD INTERFACE
Standards	ISO 7816 & EMV[2] 2000 Level 1
Protocols	T=0, T=1, 2-wire: SLE 4432 / 42 (S=10); 3-wire: SLE 4418 / 28 (S=9), I²C (S=8)
Card Size	ID-1 (full-size)
Smart Card Interface Speed	420 Kbps (when supported by card)
Smart Card Clock Frequency	Up to 8 MHz
Supported Card Types	5V, 3V and 1.8V Smart Cards, ISO 7816 Class A, B and C
Power to Smart Card	60 mA
Smart Card Detection	Movement detection with auto power-off / Automatic detection of smart card type/ Short circuit and thermal protection
8-Pin Handling	C4 / C8 supported
	CONTACTLESS SMART CARD INTERFACE
Protocols	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)
Supported APIs	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)
PC / SC Driver Support	Windows® XP / Vista / Windows 7 (32 bit / 64 bit), 2003 / 2008 Server, 2008 Server, Windows® CE 5.0 / CE.NET / CE 6.0 (depending on hardware), Linux® and Mac® OS X
Status Indicator	Dual-color LED (green = ready, red = busy)
Reader Board	Also available as PCB
Color	Dark gray
Options	Customer-specific logo, label and colors: available upon request
Composition	ABS
Connector Cable	70.9" (180 cm)
Durability	100,000 insertions
Meantime Between Failure (MTBF)	500,000 hours
Compliance / Certification	Microsoft® WHQL[3], EMV[2] 2000 Level 1, ISO 7816, HBCI[4], USB 2.0 (USB 1.1 compatible), CCID[1](contact interface only), GSA FIPS 201 approved product list, TAA (on request)
Safety / Environmental	CE, FCC, UL, RoHS, WEEE , BSI (eID / nPA)
Warranty	Two-year manufacturer's warranty. (For drivers, see complete lifetime support policy.)

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

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