HID®

OMNIKEY® 4121 CL ExpressCard Reader

CONTACTLESS OMNIKEY® SMART CARD READER FOR EXPRESSCARD 34MM AND 54MM

- **First Full-Featured** – contactless 13.56 MHz reader in a slim ExpressCard form factor

- **Enhanced Two-Factor Authentication for mobile work environments** – allows secure and convenient usage of contactless physical access and contactless PKI cards to securely access a network while travelling

- **Smart Design** – Can remain permanently plugged in any 34mm or 54mm ExpressCard notebook slot avoiding possible loss of reader when travelling

- **Robust Housing** – Increases durability and provides for a long-lasting solution

In an increasingly mobile world, card-based two-factor authentication can no longer be restricted to a desktop environment. People who are travelling or spending time away from the office desk need secure access to their computers and networks by utilizing contactless cards such as physical access or PKI cards.

The OMNIKEY® 4121 CL Express card reader provides a convenient and flexible way for users to securely log on to their devices such as laptops or notebooks when they're away from their desks.

Developed for a broad audience, the innovative PC-linked OMNIKEY 4121 CL reader interfaces a wide range of 13.56 MHz contactless smart cards. Based on ISO 14443 A/B and ISO 15693, it supports contactless PKI cards, HID iCLASS®, MIFARE®, MIFARE® Ultralight, DESFire®, SmartMX and ICODE.

The OMNIKEY 4121 CL is highly flexible and convenient. Smart accessories such as the additional clip-on adaptor means the reader can be used not only with 34mm slots, but also with 54 mm ExpressCard slots. And the clip-on adaptor supports a stable and exact fit for any ExpressCard slot

variant. This minimizes the risk of accidental damage and unintended withdrawal.

Another useful accessory is the additional card holder which supports all applications where a permanent "card present" is required.

In addition, the robust design of the OMNIKEY 4121 CL allows the reader to remain permanently plugged into its device, even when not being used. This overcomes the possibility of losing the reader even when travelling.

Increased efficiency is provided by leveraging the well proven OMNIKEY contactless driver platform as well as Windows® Plug-and-Play driver support. This means the reader can seamlessly integrate into any end-user environments with little or no administration.

As with all HID OMNIKEY contactless smart card readers, the OMNIKEY 4121 CL device allows users to experience the convenience, speed and security of contactless technology for applications such as – and network log-on, email encryption and signing, as well as many other state-of-the-art IT security uses.

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

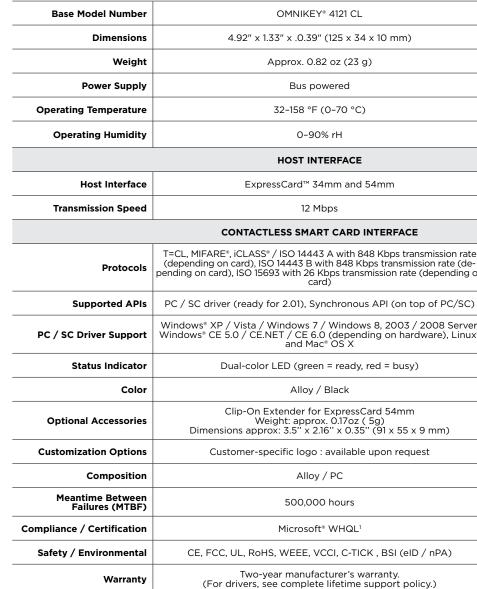- Contactless 2048 bit key generation in RSA mode (JCOP / SMART-MX)

For actual driver downloads please visit **hidglobal.com/omnikey**

FEATURES:

- Reader fits in any industry standard ExpressCard 34mm and 54mm PC slot
- Optional clip-on adaptor for more added stability in 54mm Express Card slots
- Reader supports contactless smart cards with up to 848 Kbps in the fastest ISO 14443 transmission mode
- EMD suppression support
- Supports three ISO standards for contactless cards (ISO 14443 A/B and 15693)

- HID iCLASS®, MIFARE®, MIFARE® Ultralight, DESFire®, SMART-MX and ICODE
- Functionally equivalent to existing OMNIKEY 5x21 contactless reader platform
- Card holder for *card present*
- Windows® WHQL / Plug-and-Driver support

SPECIFICATIONS

Base Model Number	OMNIKEY® 4121 CL
Dimensions	4.92" x 1.33" x .39" (125 x 34 x 10 mm)
Weight	Approx. 0.82 oz (23 g)
Power Supply	Bus powered
Operating Temperature	32–158 °F (0–70 °C)
Operating Humidity	0–90% rH
HOST INTERFACE	
Host Interface	ExpressCard™ 34mm and 54mm
Transmission Speed	12 Mbps
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), Synchronous API (on top of PC/SC)
PC / SC Driver Support	Windows® XP / Vista / Windows 7 / Windows 8, 2003 / 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)
Color	Alloy / Black
Optional Accessories	Clip-On Extender for ExpressCard 54mm Weight: approx. 0.17oz (5g) Dimensions approx: 3.5'' x 2.16'' x 0.35'' (91 x 55 x 9 mm)
Customization Options	Customer-specific logo : available upon request
Composition	Alloy / PC
Meantime Between Failures (MTBF)	500,000 hours
Compliance / Certification	Microsoft® WHQL[1]
Safety / Environmental	CE, FCC, UL, RoHS, WEEE, VCCI, C-TICK , BSI (eID / nPA)
Warranty	Two-year manufacturer's warranty. (For drivers, see complete lifetime support policy.)

[1] *Windows® Hardware Quality Lab*

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