



**CONTACTLESS READER WITH CCID AND KEYBOARD WEDGE INTERFACE IN NEW OMNIKEY DESKTOP HOUSING**



- **Security** - Enhanced system security supporting low and high frequency credentials including HID Prox® & Indala®, MIFARE® Classic, MIFARE DESFire® EV1, iCLASS®, iCLASS SE®, iCLASS® Seos®, iCLASS Elite®, and other SIO-enabled credentials.
- **Ease of use** - Straightforward utilization of existing access control credentials for PC login in both CCID and Keyboard Wedge operation modes.
- **CCID support** - Eliminates the need to install drivers on standard operating systems.
- **Keyboard Wedge support** - Retrieves data from a card and presents the information directly to any application by emulating keyboard strokes.
- **Support of Seos and Part of the iCLASS SE Platform** - Provides multi-layered security that extends beyond the card technology, providing additional protection to identity data

**HID iCLASS SE® PLATFORM**

- Enables customers to future-proof their Secure identity infrastructures
- Simplifying how identities are created, used and managed across a range of applications
- Using smart cards and microprocessor cards as well as NFC-enabled smartphones (utilizing iCLASS Seos)
- Offers a secure, standards based technology-independent and flexible solution based on Secure Identity Object™ (SIO™)
- Supports new SIO-enabled credentials based on a variety of technologies, such as iCLASS SE, iCLASS Elite iCLASS Seos and MIFARE Classic

HID Global's OMNIKEY 5427CK Reader functions in virtually any PC environment. Independent of the operating system and use case, the reader's CCID or Keyboard Wedge interface provide the ideal solution without the need to install or maintain drivers. This removes complex software lifecycle management issues in the field and accelerates time to market and allows the user to become part of the iCLASS SE platform. The platform offers a secure, standards based technology-independent and flexible solution based on Secure Identity Object (SIO), a new portable and open credential methodology.

With the keyboard wedge functionality, data from the card can be retrieved and transformed for direct input into applications using keystroke emulation. This eliminates the need for organizations to manually enter card data into applications. In addition to the standard CCID and Keyboard Wedge operation modes, the reader includes an integrated, easy-to-use web-based management tool that enables intuitive browser-based configuration

without the need for special training. The reader supports two operational modes, this guarantees a long term investment by allowing the adaptation of CCID from keyboard wedge where there is a change to security requirements. The OMNIKEY 5427CK supports low and high frequency technology within a single device that enables seamless credential migration and mixed technology environments. The reader includes support for a wide range of low and high frequency card technologies, including HID Prox, Indala and EM Prox, MIFARE Classic, MIFARE DESFire EV1, and iCLASS, as well as iCLASS SE, iCLASS Seos, iCLASS Elite, and other SIO-enabled credentials.

For embedded applications, the OMNIKEY 5427CK is also available as a reader board with an included Developer Tool Kit that provides all of the necessary tools and documentation to shorten integration cycles and to accelerate time to market with finished products.

For further information please visit the Developer Center: [www.hidglobal.com/main/developers/omnikey-5127-ck/](http://www.hidglobal.com/main/developers/omnikey-5127-ck/)

**FEATURES:**

**CCID Support**

- Native CCID implementation supporting Windows®, LINUX® and Mac® operating systems.

**Keyboard Wedge**

- Fully configurable and programmable keyboard wedge functionality featuring an integrated management console.
- Flexible configuration of data structures and output modes.
- Human Interface Device (HID) protocol allows reader configuration through host in keyboard Wedge mode
- Extended keyboard boot option for devices with limited USB device handling capabilities

**Broad Credential Support**

- Dual frequency functionality allowing support for both low and high frequency credentials simultaneously.
- HID Prox®, Indala® & EM Prox, MIFARE® Classic, MIFARE® DESFire® EV1, iCLASS®, iCLASS SE®, iCLASS® Seos®, iCLASS Elite®, and other SIO-enabled credentials.

**Enhanced Lifecycle Management**

- Easy firmware updates and configuration setting utilizing a Web interface, SNMP messages and configuration cards.
- Developer Tool Kit (DTK) available that contains product samples, development documentation, samples code and access to HID's developer portal.



**SPECIFICATIONS**

<b>Base Model Number</b>	OMNIKEY® 5427CK	
<b>Dimensions</b>	2.79" x 3.66" x 0.63" (71 mm x 93 mm x 16 mm)	
<b>Weight</b>	Approx. 3.53 oz (100g)	
<b>Power Supply</b>	Bus powered	
<b>Current Requirements</b>	With Credential in the field: 170mA No Credential in the field: 80mA Standby (Sleep Current): 890µA	
<b>Operating Temperature</b>	32° - 158° F (0° - 70° C)	
<b>Operating Humidity</b>	10 - 90% Relative Humidity	
<b>Storage Temperature</b>	-4° - 176° F (-20° to 80° C)	
<b>International Protection Rating</b>	IP54 (dust / splashing water) (in preparation)	
<b>HOST INTERFACE</b>		
<b>Host Interface</b>	USB 2.0 (also compliant with USB 1.1)	
<b>Transmission Speed</b>	12 Mbps (USB 2.0 full speed)	
<b>CONTACTLESS SMART CARD INTERFACE</b>	<b>CCID</b>	<b>KEYBOARD WEDGE</b>
<b>Cards / Protocols High Frequency</b>	iCLASS, iCLASS SE/SR, iCLASS Seos MIFARE Classic 1K / 4K, Ultra Light, Ultra Light C, Plus, MIFARE DESFire 0.6, MIFARE DESFire EV1, MIFARE SE, DESFire EV1 SE, T=CL, ISO 14443 A with up to 848 kbps transmission rate (depending on card1), ISO 15693 with up to 26 kbps transmission rate (depending on card)	The following credentials can be handled autonomously: iCLASS, iCLASS SE/SR, iCLASS Seos MIFARE SE, DESFire EV1 SE MIFARE Classic 1K / 4K, Ultra Light, Ultra Light C, Plus (Security Lvl 1), MIFARE DESFire 0.6, MIFARE DESFire EV1 (MAC / DES/3DES / 3K3DES / AES) CEPAS (CAN) ISO14443B (CSN)
<b>Cards / Protocols Low Frequency</b>	HID PROX, HID Indala Prox, EM Prox, AWID Prox	
<b>Supported APIs</b>	PC/SC (ready for 2.01/ CCID mode)	Human Interface Device
<b>PC / SC Driver Support</b>	Compliant with native OS CCID drivers (in CCID mode). HID proprietary PC/SC drivers available for: Windows® XP / Vista™ / 7 (32 bit / 64 bit) / 8, 2003 Server, 2008 R2 Server, Linux (32 / 64 bit, incl. Debian 6.0, Fedora 15, OpenSUSE 11.4, Ubuntu 11.04) & Mac OS X (10.5 Leopard and higher, Intel 32 / 64 bit)	Compliant with native Human Interface Drivers
<b>Status Indicator</b>	Dual color LED (white=ready, blue=busy) Buzzer (programmable)	
<b>Color</b>	Cover Black / Body light grey	
<b>Accessories (included)</b>	Removable Card Holder for card-present operation	
<b>Optional Accessories</b>	Mounting Jacket Accessory (For screw on mounting, camera mounting screw use and adhesive strip) Vertical Standing Base	
<b>Connector Cable / Length</b>	USB Type A Connector / 78.7" (200 cm)	
<b>Customization Options</b>	Customer-specific logo / housing color (available upon request)	
<b>Composition</b>	PC	
<b>Meantime Between Failure(MTBF)</b>	500,000 hours	
<b>Compliance / Certification</b>	Microsoft® WHQ <sup>2</sup>	
<b>Approvals / Environmental</b>	Compliant RoHS (REACH), WEEE, UL, CE, FCC, ICES (Canada) iDA (Singapore), KCC (Korea), NCC (Taiwan), SRRRC (China)	
<b>Warranty</b>	Two-year manufacturer's warranty. (For drivers, see complete lifetime support policy.)	

**KEYBOARD WEDGE FEATURES INCLUDE:**

- Configurable input & definable output fields per output field
- Cascadeable free custom data fields
- Card-specific configurations
- Pre- / poststroke definitions and shortcuts
- Big / Little Endian Conversion
- HEX, BCD, BIN, DEC & ASCII output transformation
- Bitstream parsing of HID's Physical Access Control
- Data filtering and padding of leading / trailing characters
- Reverse output incl. custom, CSN and PACS data objects



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1 = 24 kbps default data rate, 848 kbps configurable through web interface  
2 = Windows® Hardware Quality Lab