

# OMNIKEY® 5427CK

Contactless reader with CCID and keyboard wedge available with Bluetooth® Low Energy interface for Mobile Access



HID's OMNIKEY® 5427CK Reader operates in virtually any PC environment. Independent of the operating system and use case, the reader's CCID or Keyboard Wedge interface provides the ideal solution with no need to install or maintain drivers. This removes complex software lifecycle management issues in the field and accelerates time to market while allowing 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. Thanks to its keyboard wedge functionality, data from the card can be retrieved and transformed for direct input into applications using keystroke emulation and therefore 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 ensuring long term investment allowing to adapt CCID from keyboard wedge where a change to security requirements appears. The OMNIKEY® 5427CK supports low and high frequency technology within a single device that enables seamless credential migration and mixed technology environments. For embedded applications, the OMNIKEY 5427CK is also available as a reader board – dedicated Developer Tool Kit provides all of the necessary tools and documentation to shorten integration cycles and to accelerate time to market with finished products.

## MOBILE ENABLED READER FEATURES:

- Includes Apple's Enhanced Contactless Polling (ECP) application to support credentials in Apple Wallet
- Adjustable read settings control overall power and read range of Mobile IDs, enabling flexibility for both close-proximity "tap" and long-range "Twist and Go" distances
- Read settings administered using mobile phone during installation
- Directional antenna enabling long range reading distances up to 2m



## KEY BENEFITS:

- **Dual frequency** – Simultaneously supports low and high frequency credentials, including iCLASS Seos®, HID Prox®, iCLASS SE®, MIFARE Classic®, MIFARE Plus®, MIFARE Ultralight® and MIFARE® DESFire® EV1, EV2 as well as FIDO2 NFC authenticators.
- **Supports mobile access** – Available with Bluetooth® Low Energy interface to leverage HID's mobile credentials to access computer, network, data or cloud
- **Supports Seos and iCLASS SE Platform** - Provides multi-layered security that extends beyond the card technology, offering additional protection to identity data.
- **Ease of use** – Straightforward utilization of existing access control credentials for PC login in both CCID and Keyboard Wedge operation modes
- **Keyboard Wedge support** – Retrieves data from a card and presents the information directly to any application by emulating keyboard strokes.

# OMNIKEY® 5427CK Reader



## 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



## PRODUCT 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, EV2, iCLASS, iCLASS SE, iCLASS Seos, iCLASS Elite, and other SIO enabled credentials
- Available with Bluetooth interface to be used with HID mobile access credential for IT Access
- Includes Apple's Enhanced Contactless Polling (ECP) application to support credentials in Apple Wallet
- Supports FIDO/FIDO2 NFC authenticators like YubiKey NFC, HID Crescendo smart cards & keys

### 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 Global's developer portal

| 13.56 MHz HF and 125Khz LF Smart Card Reader with CCID and Keyboard Wedge Interface |                                                                                                                                                                                                                                                                                                              |                               |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Base Model Number                                                                   | OMNIKEY® 5427CK Gen2                                                                                                                                                                                                                                                                                         |                               |
| Bluetooth® Low Energy functionality                                                 | WITH BLUETOOTH® LOW ENERGY                                                                                                                                                                                                                                                                                   | WITHOUT BLUETOOTH® LOW ENERGY |
|                                                                                     | CONTACTLESS SMART CARD INTERFACE                                                                                                                                                                                                                                                                             |                               |
| Protocols and Cards HF*                                                             | iCLASS, iCLASS SE/SR, iCLASS Seos, MIFARE Classic , MIFARE DESFire 0.6, MIFARE DESFire EV1/EV2 MIFARE Ultralight C, MIFARE Ultralight FelCa (Idm) CEPAS (CAN) ISO 14443A/B, ISO15693 Support for ISO18092 NFC Tag type 1, 2, 3, 4, 5 T=CL, SmartMx, Student ID in Apple Wallet FIDO/FIDO2 NFC authenticators |                               |
| Protocols and Card LF*                                                              | HID Prox, Indala Prox, EM Prox, EM4100/4102/4200/4305/4450, AUID Prox, Hitag 1.2,3, ASK, PSK, FSK                                                                                                                                                                                                            |                               |
|                                                                                     | BLUETOOTH® LOW ENERGY INTERFACE                                                                                                                                                                                                                                                                              |                               |
| Supported Functions                                                                 | HID Global Mobile Access Service                                                                                                                                                                                                                                                                             | N/A                           |
|                                                                                     | HOST INTERFACE                                                                                                                                                                                                                                                                                               |                               |
| USB Interface                                                                       | USB 2.0 Full Speed Device (12 Mbps)<br>USB 3.0 extended operability, tested withhubs/controllers                                                                                                                                                                                                             |                               |
| Connector / Cable                                                                   | USB Type A connector, 59.1" (150 cm) cable                                                                                                                                                                                                                                                                   |                               |
| Operating Systems                                                                   | Windows 11/10/8.1/8/7/Server 2016/Server 2012/Server 2008R2<br>Linux Debian 6.0+ / Ubuntu 11.04+/ Fedora 15+; Open SUSE 11.4+<br>Mac OS X**; Android™ 4.x to 9.x**                                                                                                                                           |                               |
| PC/SC Driver                                                                        | CCID native driver from operating system (Windows/Linux/Mac)                                                                                                                                                                                                                                                 |                               |
| Keyboard Driver                                                                     | Native driver from operating system supporting MF-102 keyboard (Windows/Linux/Mac)                                                                                                                                                                                                                           |                               |
| Supported APIs                                                                      | PC/SC - API, SAM - API                                                                                                                                                                                                                                                                                       |                               |
|                                                                                     | HUMAN INTERFACE                                                                                                                                                                                                                                                                                              |                               |
| Status Indicator                                                                    | Dual Colour Led (White + Blue)                                                                                                                                                                                                                                                                               |                               |
|                                                                                     | HOUSING                                                                                                                                                                                                                                                                                                      |                               |
| Housing                                                                             | Poly Carbonate<br>Cover Black / Body Light Grey<br>Card Holder for card presence operation                                                                                                                                                                                                                   |                               |
| Dimensions                                                                          | 2.79" x 3.66" x 0.63" (71 mm x 93 mm x 16 mm)                                                                                                                                                                                                                                                                |                               |
| Weight                                                                              | ~100 g (3.53 oz)                                                                                                                                                                                                                                                                                             |                               |
|                                                                                     | OPERATING CONDITIONS                                                                                                                                                                                                                                                                                         |                               |
| Operating Temperature                                                               | 32° - 131° F (0° - 55°C)                                                                                                                                                                                                                                                                                     |                               |
| Operating Humidity                                                                  | 10-95% rH (not condensing)                                                                                                                                                                                                                                                                                   |                               |
| Storage Temperature                                                                 | -4° - 176° F (-20° - 80°C)                                                                                                                                                                                                                                                                                   |                               |
| Meantime Between Failure (MTBF)                                                     | 500,000 hours                                                                                                                                                                                                                                                                                                |                               |
|                                                                                     | COMPLIANCE AND REGULATORY                                                                                                                                                                                                                                                                                    |                               |
| Compliance / Certification                                                          | USB 2.0                                                                                                                                                                                                                                                                                                      |                               |
| Regional certifications                                                             | CE, UKCA, FCC, UL, KCC, RCM, ANATEL                                                                                                                                                                                                                                                                          |                               |
| Environmental                                                                       | WEEE, RoHS3, Reach                                                                                                                                                                                                                                                                                           |                               |
|                                                                                     | ORDERING INFORMATION                                                                                                                                                                                                                                                                                         |                               |
| Warranty                                                                            | Two-year manufacturer's warranty                                                                                                                                                                                                                                                                             |                               |
| Optional                                                                            | Mounting accessories kit                                                                                                                                                                                                                                                                                     |                               |

\* For up to date credential support please refer to Credential Support Matrix

\*\* CCID and KeyBoard Wedge support



hidglobal.com

North America: +1 512 776 9000 | Toll Free: 1 800 237 7769

Europe, Middle East, Africa: +353 (91) 414060

Asia Pacific: +852 3160 9800 | Latin America: +52 55 9171 1108

For more global phone numbers click here

© 2026 HID Global Corporation/ASSA ABLOY AB. All rights reserved.

2026-04-06-1dt-omnikey-5427-ck-reader-ds-en PLT-00389

Part of ASSA ABLOY

For more information, please [click here](#).

