

# OMNIKEY® 5023 USB Reader

Contactless, High-Frequency smart card reader for Seos and other SIO-enabled credentials



HID Global's OMNIKEY® 5023 enables strong authentication to computer, network or cloud applications, supporting 13.56 MHz credentials with enhanced system security such as iCLASS Seos®, iCLASS SE®, iCLASS Elite®, as well as FIDO2 NFC authenticators.

Typical environments for the reader include healthcare, pharmaceutical, financial services, enterprise, government and other agencies seeking higher security and access management.

The new reader has an integrated cryptographic module supporting enhanced security schemes such as

Secure Identity Object™ (SIO). HID Global's SIO-enabled ecosystem offers a highly secure, standards-based, technology-independent and flexible identity data structure.

The reader is supporting Seos and is part of the iCLASS SE Platform. It provides multi-layer security that extends beyond the card technology for additional protection to identity data.

The OMNIKEY 5023 can also be used to meet security and regulatory compliance requirements which mandate two-factor user authentication for accessing workstations and applications. As part of the ActivID® Tap Authentication™ solution, the reader also enhances the user experience and security by allowing user to simply tap a card to a device in order automatically generate an OTP (One-time password) for secure login.

The reader is integrated and tested with HID Global's ActivID® Tap™ solution, ActivID® ActivClient, and ActivID® Applets.



## KEY BENEFITS:

- **Leverage existing employee badge** – Expand the usage of existing physical access cards to computer logon, as well as network and cloud access.
- **Supports Seos® and iCLASS SE® Platform** – Multi-layered security that extends beyond the card technology, providing additional protection to identity data
- **Enhanced System security supporting high frequency credentials** – including iCLASS Seos®, iCLASS SE®, iCLASS Elite®, iCLASS®, MIFARE® Classic, MIFARE DESFire® and other SIO-enabled credentials
- **CCID support** – Eliminates the need to install drivers on standard operating systems

## POWERFULLY SECURE

- Multi-Layered security to ensure data authenticity and privacy
- EAL5+ Certified Secure Element Hardware
- Native OSDP secure channel capability
- Trusted secure authentication using the SIO data model
- Supports HID® Elite Key™ and HID® Corporate 1000™ Programs™

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## PRODUCT FEATURES:

- Native CCID implementation supporting Windows®, LINUX® and Mac® operating systems
- SAM-API to for SIO operation
- Small and sleek footprint with optional accessories
  - Mounting kit including a mounting plate, screw and glue options
  - Card holder for card presence operation
- Global certifications for worldwide usage.
- Interoperable with various smart card technologies, tags and standards such as
  - ISO 14443 A/B
  - iCLASS Elite
  - iCLASS SE
  - Seos® (read only)
  - MIFARE® Classic / Ultralight / Ultralight C / Plus
  - MIFARE DESFire® / DESFire EV1 / DESFire EV2
  - FIDO2 NFC authenticators like YubiKey NFC, HID Crescendo smart card & key
- Support for HID Global solutions
  - ActivID® Tap™ Authentication Solution
  - ActivID® ActivClient and ActivID® Applets
- Supports NFC FIDO/FIDO2 devices

USB Smart Card Reader in small form-factor	
<b>Base Model Number</b>	OMNIKEY 5023
<b>SMART CARD INTERFACE</b>	
<b>Protocols</b>	T=CL, MIFARE®, iCLASS® ISO 14443A/B - up to 848 kbps (depending on card) iCLASS SE and Seos (can read data only / no writing) Felica (only UID) NFC Tag (1,2,3,4)
<b>HOST INTERFACE</b>	
<b>USB Interface</b>	USB 2.0 Full Speed Device (12 MBps) USB 3.0 extended operability, tested with hubs/controllers
<b>Connector / Cable</b>	USB Type A connector; 59.1" (150 cm) cable
<b>Operating Systems</b>	Windows 11/10/8.1/8/7/Server 2016/Server 2012/Server 2008R2 Linux Debian 6.0+ / Ubuntu 11.04+/ Fedora 15+; Open SUSE 11.4+ Mac OS X; Android™ 4.x-7.x**
<b>Driver</b>	CCID native driver from operating system (Windows/Linux/Mac)
<b>Supported APIs</b>	PC/SC - API, SAM - API
<b>HUMAN INTERFACE</b>	
<b>Status Indicator</b>	White LED
<b>HOUSING</b>	
<b>Housing</b>	Poly Carbonate Body Light Grey / Cover in Dark Blue
<b>Dimensions</b>	2.32" x 2.32" x 0.44" (59 x 59 x 11,4 mm)
<b>Weight</b>	~70 g (2.5 oz)
<b>OPERATING CONDITIONS</b>	
<b>Operating Temperature</b>	32-158 F (0-70°C)
<b>Operating Humidity</b>	10-95% rH (not condensing)
<b>Storage Temperature</b>	-4 - 176 F (-40 - 80°C)
<b>Meantime Between Failure (MTBF)</b>	500.000 hours
<b>COMPLIANCE REGULATORY</b>	
<b>Compliance / Certification</b>	USB 2.0
<b>Regional certifications</b>	CE, UKCA, FCC, UL, KCC, RCM
<b>Environmental</b>	WEEE, RoHS2, Reach
<b>ORDERING INFORMATION</b>	
<b>Warranty</b>	Two-year manufacturer's warranty
<b>Optional</b>	Mounting accessories kit Card Holder for card presence operation



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 2026-02-27-idx-omnikey-5023-usb-reader-ds-en PLT-03224  
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\* reader/writer mode only; NDEF format to be implemented by additional software  
 \*\* after market launch

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