



# OMNIKEY® 5421 Reader



## CONTACT AND CONTACTLESS USB SMART CARD READER

- **Reliable** - Proven OMNIKEY® driver and hardware technology.
- **Versatile** - Ideal for end-user environments using both contact and contactless smart card technology and migration scenarios.
- **Interoperable** - Supports iCLASS®, MIFARE® and MIFARE DESFire® as well as tags and new technologies such as NFC enabled devices.
- **Compliant** - Supports ISO 14443 A / B and 15693 and the ISO 7816 industry standards for contact cards.

### CONTACTLESS SMART CARDS SUPPORT:

- HID: iCLASS®
- NXP: MIFARE®, MIFARE® Ultralight, MIFARE DESFire®, SMART-MX and ICODE (including credentials emulated by mobile phones in NFC card modulation mode)
- NFC Tag Types 1, 2 and 4
- Texas Instruments: TagIT®
- ST Micro: x-ident, SR 176, SR 1X 4K
- Infineon: My-d (in secure mode UID only)
- Contactless 2048 bit key generation in RSA mode (JCOP / SMART-MX)

The OMNIKEY® 5421 represents the ultimate combination of contact and contactless technology in a single device. The solution features a dual-interface, PC-linked reader that reads / writes to both a 13.56 MHz contactless smart card and virtually any contact smart card to support environments where both contact and contactless smart card technologies are required.

Utilizing contactless smart card technology for PC-linked applications, thin- and zero-client environments the reader provides users with the convenience, speed and security for applications such as user authentication to PCs, software, cloud-based applications, networks and web sites.

Known for high reliability in the field, the OMNIKEY 5421 reader is based on the proven driver and hardware technology to ensure greater stability, durability and compliance.

The reader supports the most common high frequency cards on the market including iCLASS®, MIFARE® and MIFARE DESFire®. It is also interoperable with NFC-enabled devices and tags.

For design flexibility, the professional line desktop housing aligns seamlessly with any modern working environment. It can be ordered with several accessories and mounting options.

### FEATURES:

- Native CCID implementation supporting WINDOWS<sup>®</sup>, LINUX<sup>®</sup> and MAC<sup>®</sup> operating systems for contact reader part
- Supports three ISO standards for contactless cards (ISO 14443 A / B and 15693) and the ISO 7816 industry standards for contact cards
- Supports contactless smart cards with up to 848 Kbps in the fastest ISO 14443 transmission mode
- Supports EMD suppression on contactless interface



### ASSA ABLOY

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### SPECIFICATIONS

<b>Base Model Number</b>	OMNIKEY <sup>®</sup> 5421
<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>Connector Cable / Length</b>	USB Type A Connector / 78.7" (200 cm)
<b>CONTACT SMART CARD INTERFACE (CCID)</b>	
<b>Standards</b>	ISO 7816 A/B/C
<b>Protocols</b>	T=0, T=1
<b>Card Size</b>	ID-1 (full-size)
<b>Smart Card Interface Speed</b>	420 Kbps (when supported by card)
<b>Smart Card Clock Frequency</b>	Up to 8 MHz
<b>Supported Card Types</b>	5V, 3V and 1.8V Smart Cards
<b>Power to Smart Card</b>	60 mA
<b>Smart Card Detection</b>	Movement detection with auto power-off / Automatic detection of smart card type/ Short circuit and thermal protection
<b>8-Pin Handling</b>	C4 / C8 supported
<b>CONTACTLESS SMART CARD INTERFACE</b>	
<b>Standards &amp; Protocols</b>	ISO 14443 A/B with up to 848 kbps transmission rate (depending on card), ISO 15693 with up to 26 kbps transmission rate (depending on card), T=CL
<b>Cards</b>	HID iCLASS <sup>™</sup> ; MIFARE <sup>™</sup> Classic/Ultra-light/Plus/DESFire
<b>HUMAN INTERFACE</b>	
<b>Status Indicator</b>	Light Emitting Diode
<b>DRIVER &amp; SOFTWARE</b>	
<b>PC / SC Driver Support</b>	Windows <sup>®</sup> XP/Vista/7/8 (32+64 bit)/ Windows Server 2003/2008 (32+64 bit), 2008R2 (64 bit) / Windows CE 4.2/5/6/7 (depending on hardware) / Linux <sup>®</sup> and Mac <sup>®</sup> OS X
<b>Supported APIs</b>	PC/SC driver / CT-API (on top of PC/SC for contact interface) / OCF (on top of PC/SC, for contact interface)
<b>CCID</b>	Supported on contact interface including extended APDU
<b>HOUSING</b>	
<b>Type</b>	OMNIKEY Professional Line Desktop Design
<b>Color</b>	Cover grey / Body light grey
<b>Composition</b>	PC
<b>Optional Accessories</b>	Removable Card Holder for card-present operation / Mounting Jacket & Adhesive Tape / Vertical Standing Base (in preparation)
<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>Protection Rating</b>	IP54 (dust / splashing water) (in preparation)
<b>OPERATING CONDITIONS</b>	
<b>Power Supply</b>	Bus powered
<b>Operating Temperature</b>	32° - 131° F (0° - 55° C)
<b>Operating Humidity</b>	10 - 90% Relative Humidity
<b>Storage Temperature</b>	-4° - 176° F (-20° - 80° C)
<b>Durability</b>	100,000 insertions
<b>Meantime Between Failure(MTBF)</b>	500,000 hours
<b>CERTIFICATIONS &amp; APPROVALS</b>	
<b>Compliance / Certification</b>	CCID <sup>1</sup> (contact interface only), Microsoft <sup>®</sup> WHQL <sup>2</sup> , USB 2.0, TAA (on request)
<b>Approvals / Environmental</b>	RoHS 2, REACH, WEEE, UL, CE, FCC, ICES (Canada)
<b>ORDERING INFORMATION</b>	
<b>Warranty</b>	Two-year manufacturer's warranty. (For drivers, see complete lifetime support policy.)

1 = Chip Card Interface Device  
2 = Windows<sup>®</sup> Hardware Quality Lab