Introduction
This guide describes physical behaviour and conformities of OMNIKEY Smart Card Readers.

**1021 USB** - Desktop smart card reader in a small form factor for desktop and mobile usage.

**3021 USB** - High-performance smart card reader, with a USB interface and small form factor for desktop and mobile usage.

**3121 USB** - High-performance smart card reader for desktop use with multiple standing base options in a robust housing.

**5021 USB** - Contactless Reader with USB interface for desktop use that reads/writes to 13.56 MHz smart cards.

**5022 USB** - Contactless Reader with USB CCID-compliant interface for desktop use that reads/writes to 13.56 MHz smart cards.

**5023 USB** - A 5022 Reader with iCLASS and Seos support.

**5027 USB** - A 5023 Reader with Keyboard wedge.

**5025 CL USB** - Contactless Reader with USB CCID-compliant interface for desktop use that reads contactless (125 kHz) Prox cards.

**5127 / 5427 CK / 5427 UE USB** - Contactless 13.56MHz/125kHz reader with CCID/Keyboard wedge interface.

**5427 G2** - Contactless 13.56MHz/125kHz reader with CCID/Keyboard wedge interface and BLE.

**5421 / 5422 USB** - Dual interface PC-linked reader that reads/writes to 13.56 MHz contactless cards and virtually any contact smart card. 5422 includes CCID.

**6121 Mobile USB** - Dongle-sized smart card reader for SIM-sized smart cards, especially well suited for use with mobile devices.

Parts
- Smart Card Reader
- Installation Guide

Find drivers, reader documentation supporting various operating systems at: [www.hidglobal.com/omnikey](http://www.hidglobal.com/omnikey)

See the application note for card loading and handling instructions at: [www.hidglobal.com/omnikey](http://www.hidglobal.com/omnikey)

Specifications and Installation
For further information, contact HID support: [www.hidglobal.com/support](http://www.hidglobal.com/support)

For driver setup, consult the OMNIKEY Smart Card User Guide.

**CAUTION:** Install the OMNIKEY reader with the computer.

**ATTENTION:** Vous devez installer le driver avant de connecter le lecteur OMNIKEY à l’ordinateur.

**USB Connected Reader Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>32°F to 131°F (0°C to 55°C)</td>
</tr>
<tr>
<td><strong>PC Connector Cable</strong></td>
<td>59.1 in (150 cm)</td>
</tr>
<tr>
<td></td>
<td>1021, 3021, 3121, 5021, 5022, 5023, 5025 CL,</td>
</tr>
<tr>
<td></td>
<td>5027, 5422, 5427 G2</td>
</tr>
<tr>
<td></td>
<td>78.7 in (200 cm)</td>
</tr>
<tr>
<td></td>
<td>5421, 5427 CK</td>
</tr>
<tr>
<td><strong>Mean Time Between Failures (MTBF)</strong></td>
<td>500,000 Hours</td>
</tr>
<tr>
<td><strong>Host Interface</strong></td>
<td>USB 2.0 CCID (USB 1.1 Compatible)</td>
</tr>
<tr>
<td><strong>Host Data Transmission Speed</strong></td>
<td>12 Mbps (USB 2.0 Full Speed)</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>Bus Powered</td>
</tr>
</tbody>
</table>

**USB Connected Reader Installation**

1. Connect the reader with computer; plug the USB connector into your computer’s USB port.
2. When the reader is operational, the LED illuminates.
3. For contactless operation, hold the card next to the reader logo. For contact smart cards, insert the card into the reader with contacts facing up.
4. The LED blinks when the reader is exchanging data with a card (reading/writing).
Provided that the Antenna and tuning network have not been obtained FCC Certification by submitting the final product to a laboratory that is a CAB testing to R&TTE Directive requirements. However, in many cases, the module may need to be retuned, due to the effects of the product enclosure and assemblies within this enclosure, and the de-tuning affect that this may have on the radio circuitry. In this case and if other radios exist, Class 2 Permissive Change is required.

In the event that the HID OEM modules Kit is modified in any way, the circuitry. In this case and if other radios coexist, Class 2 Permissive Change is required. The OMNIKEY 5022 CL and 5127CK MINI Module were tested under the FCC rules and Industry Canada rules for a Modular Approval and therefore the following shall apply: (reference below FCC/IC IDs)

- Provided that the Antenna and tuning network have not been changed in any way, the Final Product label may contain the HID Global FCC ID. Provided no other radio devices exist within the final assembly. The end integrator may use these ID’s, as long as the original HID Global Label is visible.
- FCC ID: JQ6-OK5022CL or IC ID: 2236B-OK5022CL
- FCC ID: JQ6-OK5127CKMINI or IC ID: 2236B-OK5127CKMINI
- The End User/Manufacturer, will not need to repeat the intentional emissions testing (actual radio certification), however the unintentional emissions testing will need to meet the FCC and IC requirements with the module installed into the final assembly or product. This also applies to CE Marking as defined by the R&TTE Directive.

However, in many cases, the module may need to be retuned, due to the effects of the product enclosure and assemblies within this enclosure, and the de-tuning affect that this may have on the radio circuitry. In this case and if other radios exist, Class 2 Permissive Change is required.

In the event that the HID OEM modules Kit is modified in any way, the radio transmitter operating at either 125 kHz, 13.56 MHz and Bluetooth, when the module is integrated into the OEM’s final product, Radio Certification is required for the final product.

Obtain FCC Certification by submitting the final product to a Telecommunications Certified Body (TCB) laboratory that performs the testing and issue the FCC Grant. Standard: Part 15, Subpart C.

Often the same TCB tests to Canada requirements and grants certification as a Certification Body (CB). Standard: RSS-210, RSS-GEN and RSS-310, where applicable.

The same laboratory may also be an EU Communications Assessment Body (CAB) that is accredited to test to R&TTE Directive requirements for CE Marking. Applicable standards: EN 300 330, EN 301 489-3, EN 50130-4, and IEC60950.

A laboratory that is a CAB testing to R&TTE Directive requirements will also be testing to Australia and New Zealand requirements because of a common test standard. Standard: AS/NZS 4268.

Asian country certifications are obtained on an individual country basis.

OEM Final Product US Dept. of Commerce Bureau of Industry and Security (BIS) approval is required for USA based companies who export and re-export products using encryption.

Regulatory Compliance Assistance - HID Global provides technical assistance and laboratory recommendations, as required.

CAUTION: Any changes or modifications to this devise not explicitly approved by the manufacturer could void your authority to operate this equipment.

Canada Radio Certification (All Readers)
This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

The present appareil is conforme aux CNR d’Industrie Canada applicable aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes: (1) l’appareil ne doit pas produire de brouillage, et (2) l’utilisateur de l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.

CE Marking (All Readers)
HID Global hereby declares that these proximity readers are in compliance with the essential requirements and other relevant provisions of Directive 2006/95/EC. For the present, HID Global declares that these lecteurs de proximité are in compliance with the essential requirements and other relevant provisions of the Directive 2006/95/EC.

HID Global déclare par la présente que ces lecteurs à proximité sont conformes aux exigences essentielles et aux autres stipulations pertinentes de la Directive 2006/95/EC.

A HID Global, por meio deste, declara que estes leitores de proximidade estão em conformidade com as exigências essenciais e outras condições da diretiva 2006/95/EC.

HID Global bestätigt hiermit, dass die Leser die wesentlichen Anforderungen und anderen relevanten Bestimmungen der Richtlinie 2006/95/EC erfüllen.

HID Global dichiara che i lettori di prossimità sono conformi ai requisiti essenziali e ad altre misure rilevanti come previsto dalla Direttiva europea 2006/95/EC. Download the R&TTE Declaration of Conformity (DoC) at: http://www.hidglobal.com/certifications

Brazil (Readers 5022, 5023, 5422 and 5427 G2)

China (Readers 1021, 5022, 5422, 5427 and 5427 G2)

Hong Kong (Readers 5022, 5023, 5422 and 5427 G2)

India (Readers 5022, 5023, 5422 and 5427 G2)

Japan MIC (Reader 4121)

Mexico (Readers 5022, 5023, 5422, 5427 G2)

Singapore (Reader 5427 CK)

Taiwan (Readers 5321 and 5421)

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