OMNIKEY®

Smart Card Readers

Installation Guide

eBase Models: 1021, 3021, 3121, 4040, 4121, 4321, 5021, 5025, 5121, 5125, 5127, 5321, 5325, 5326, 5421, 5427, 6121, 6221, 6321.
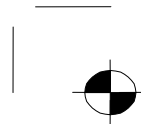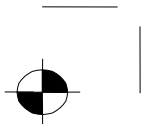
Drivers and Manuals:

www.hidglobal.com/omnikey

North America
15370 Barranca Parkway
Irvine, CA 92618
USA

Asia Pacific
19/F 625 King's Road
North Point, Island East
Hong Kong

Europe, Middle East & Africa
Phoenix Road
Haverhill, Suffolk CB9 7AE
England

support.hidglobal.com

Introduction

This guide describes physical behavior and conformities of the 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.

4040 Mobile PCMCIA – High-performance smart card reader for mobile use in laptops and PDAs with PCMCIA interface.

4121 CL - Mobile ExpressCard 34mm – Contactless Reader with ExpressCard™ interface for Laptops and mobile devices that reads/writes to 13.56 MHz smart cards.

4321 Mobile ExpressCard 54 – High-performance smart card reader for mobile use in laptops and mobile devices with the ExpressCard™ interface.

5125 / 5325 USB Prox – Dual interface PC-linked reader that reads contactless (125kHz) HID Prox cards and reads/writes virtually any contact smart card.

5121 / 5321 / 5421 USB – Dual interface PC-linked reader that reads/writes to 13.56 MHz contactless cards and virtually any contact smart card.

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

5021 / 5321 CL USB – Contactless Reader with USB interface for desktop use that reads/writes to 13.56 MHz smart cards.

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

5321 CL SAM USB – Dual interface PC-linked reader that reads/writes to 13.56 MHz contactless cards and virtually any SIM-sized contact smart card.

5326 DFR USB – Contactless Dual Frequency (13.56MHz/125kHz) Reader with CCID interface.

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

6221 USB – Dongle-sized reader for SIM-sized smart cards and Micro-SD cards, especially well suited for use with mobile devices.

6321 Mobile USB – Dongle-sized Dual interface PC linked reader that reads/writes to 13.56 MHz contactless smart card and virtually any SIM-sized contact smart card.

Parts

- Smart Card Reader
- Installation Guide

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

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

Specifications and Installation

For further information, contact HID support: http://support.hidglobal.com/.

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

CAUTION: Install the drivers prior to attaching the OMNIKEY reader with the computer.

USB Connected Reader Specifications

Operating Temperature	0°-55°C / 32°-131°F
PC Connector Cable	150 cm / 59.1 in - Models 1021, 3021 200 cm / 78.7 in - Models 5021, 5025 CL, 5421, 5427 CK 180 cm / 70.9 in - Other Models
Mean Time Between Failures (MTBF)	500,000 Hours
Host Interface	USB 2.0 CCID (USB 1.1 Compatible)
Host Data Transmission Speed	12 Mbps (USB 2.0 Full Speed)
Power Supply	Bus Powered

USB Connected Reader Installation

1. Connect the reader with your computer; plug the USB connector into your computers 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. When the reader is exchanging data with a card (reading/writing), the LED blinks.

PCMCIA and ExpressCard Reader Specifications

	4321	4121 CL	4040
Operating Temperature	0°-55°C / 32°-131°F		
Mean Time Between Failures (MTBF)	500,000 Hours		
Host Interface	ExpressCard 54mm	ExpressCard 34mm	PCMCIA
Host Data Transmission Speed	12 Mbps		16 Mbps
Power Supply	Bus Powered		PCMCIA

PCMCIA and ExpressCard Reader Installation

1. Insert the reader into the compatible interface slot of your Notebook or mobile device.

2. If the reader is operational, observe the reader in your operating system's **Device Manager**.

3. For contactless operation, hold the card next to the logo on the reader. For contact smart cards, insert the card into the reader with contacts facing up.

Regulatory

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

FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Canada Radio Certification

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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables 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

HID Global hereby declares that these proximity readers are in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Por el presente, HID Global declara que estos lectores de proximidad cumplen con los requisitos esenciales y otras disposiciones relevantes de la Directiva 1999/5/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 1999/5/CE.

A HID Global, por meio deste, declara que estes leitores de proximidade estão em conformidade com as exigências essenciais e outras condições da diretiva 1999/5/EC.

HID Global bestätigt hiermit, dass die Leser die wesentlichen Anforderungen und anderen relevanten Bestimmungen der Richtlinie 1999/5/EG erfüllen.

HID Global dichiara che i lettori di prossimità sono conformi ai requisiti essenziali e ad altre misure rilevanti come previsto dalla Direttiva europea 1999/5/EC.

Download copies of the R&TTE Declaration of Conformity (DoC) at http://certifications.hidglobal.com.

Taiwan

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

According to "Administrative Regulations on Low Power Radio Waves Radiated Devices" Without permission granted by the NCC, any company, enterprise, or user is not allowed to change frequency, enhance transmitting power or alter original characteristic as well as performance to an approved low power radio-frequency devices shall not influence aircraft security and interfere legal communications; If found, the user shall cease operating immediately until no interference is achieved. The said legal communications means radio communications is operated in compliance with the Telecommunications Act.

The low power radio-frequency devices must be susceptible with the interference from legal communications or ISM radio wave radiated devices.

Singapore

Approved by IDA for use in Singapore. DA103548

Japan MIC

この装置は総務省の型式指定を受けています。

本製品は電波を使用したRFID機器の読み取り・書き込み装置です。

そのため使用する用途・場所によっては、医療機器に影響を与える恐れがあります。

Korean KC

이 기기는 가정용(B급)으로 전자파 적합 등록을 한 기기 로서 주로 가정에서 사
용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

항목	규격
송신주파수	RFID:13.56 MHz
수신주파수	RFID:13.56 MHz
출력	RFID: 10m에서 24.19mv이하
전원	DC 5
전파형식	A1D
발진방식	X-tal
변조방식	AM