Powering the trusted identities of
the world's people, places & things

FARGO Printer Encoder Update

Secure Issuance Product Marketing

FARGO Printer Encoder Update

Effective **September 30th, 2022**, several commercial configurations of the HID® FARGO® DTCe & HDP card printers containing OMNIKEY® 5121, 5121D & 5121/5125D encoders & field upgrade kits will be discontinued

All orders are subject to availability

HID® Factory configured printer models that include OMNIKEY 5121, 5121D & 5121/5125D

encoders will be affected by this discontinuation that includes the following FARGO printer models

DTC120e NA, DTC1250e AP

DTC4250e, DTC4500e, DTC1500, DTC5500LMX

HDP5000

What is the replacement ?

HID Global is committed to provide a migration path to support our customers following the discontinuation of 5121, 5121D encoder.

HID® OMNIKEY® 5122 field upgrade kits for the HID® FARGO® DTCe & HDP card printers will be available for partners as a replacement to 5121 & 5121D

HID® OMNIKEY® 5122 encoder is fully compatible with ISO 7816 (contact chip), ISO 14443 A/B (Contactless) and iCLASS ISO 15693 credentials.

Parts number Discontinued & Replacements

Printer	Part No	Description	Status	Replacement
DTCe	047703	DTC UPGRADE KIT 5125	NO CHANGE	047703
DTCe	047704	DTC UPGRADE KIT 5121/5125	DISCONTINUED	047440 (5122) or 047703(5125)
DTCe	047705	DTC UPGRADE KIT 5121	DISCONTINUED	047440 (5122)
DTCe	047714	DTC UPGRADE KIT 5121/MOTORIZED CS	DISCONTINUED	047439 (5122) with CS
DTCe	047715	DTC UPGRADE KIT 5125/MOTORIZED CS	DISCONTINUED	047703 (5125)
DTCe	047716	DTC UPGRADE KIT 5121/5125/MOTORIZED CS	DISCONTINUED	047439 (5122) with CS or 047703

Printer	Part No	Description	Status	Replacement
HDP	089203	HDP5000 5121 ENCODER (Single Side) Bay 0	DISCONTINUED	089280 (5122)
HDP	089202	HDP5000 5121D ENCODER (Dual Side) Bay 2	DISCONTINUED	089279 (5122D) with CS
HDP	089204	HDP5000 & HDP5600 5125D ENCODER	DISCONTINUED	089205 (5125) with SS Printer
HDP	089053	UPGRADE FD/5121D	DISCONTINUED	089279(5122D) & 089001(FD module)
HDP	089033	UPGRADE FD/5125D	DISCONTINUED	089205 (5125) with SS Printer
HDP	089060	UPGRADE FD/5125/5121D	DISCONTINUED	089279(5122D) & 089001(FD module)
HDP	089205	HDP5000 & HDP5600 5125 ENCODER	NO CHANGE	089205

New Parts number for OMNIKEY 5122 & 5127CK Mini

Following new encoder field upgrade kits will be available

Printer	Part No	Description
DTCe	047440	DTC 5122 Contactless Encoder
DTCe	047439	DTC 5122D Contactless & Motorized Contact Station
HDP	089280	HDP5000 5122 Contactless Encoder
HDP	089279	HDP5000 5122D Contactless & Contact Station

HID® OMNIKEY® 5127CK Mini Field upgrade kit will also now be available for the DTCe & HDP5000 card printers. This encoder option is recommended for use with next generation HID technologies cards like iCLASS SEOS and MIFARE DESFire EV3 cards

Printer	Part No	Description
DTCe	047437	DTC 5127 CK MINI UPGRADE KIT
HDP	089278	HDP5000 & HDP5600 5127 CK MINI UPGRADE KIT

# Encoder Kits – Remains Available 5125 & 5127SI

HID® OMNIKEY® 5127SI ® Embedded Encoder will continue to be offered

DTCe	047434	DTC 5127 UPGRADE KIT (CP1000)	Programming HID PACS Access Control Application Area
HDP	089277	HDP5000 & HDP5600 5127 UPGRADE KIT (CP1000)	Programming HID PACS Access Control Application Area

HID® OMNIKEY® 5125 HID Prox Embedded reader will continue to be offered.

DTCe	047703	DTC UPGRADE KIT 5125	For HID Prox read only application
HDP	089205	HDP5000 & HDP5600 5125 ENCODER	For HID Prox read only application

OMNIKEY 5122 Overview
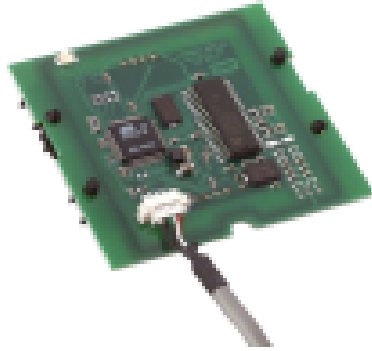
OK5121

OK5122

+ New hardware platform
+ CCID compliant
+ USB Power Management

Powering
Trusted Identities

Part of ASSA ABLOY

OMNIKEY 5122 Overview

Dual Interface Encoder Contact & Contactless

- **Dual Interface Reader –** for end-user scenarios using contact and contactless card technologies

- **No additional driver install** – uses native CCID driver from Windows, Linux, or Macintosh Operating System

- **Advanced Power Management** – Full support for low power modes and remote wakeup feature.

- **Compatible with a broad range of technologies**
  - ISO 7816, ISO14443 A/B and iCLASS ISO15693* credentials
  - most important thin- and zero client products and solutions

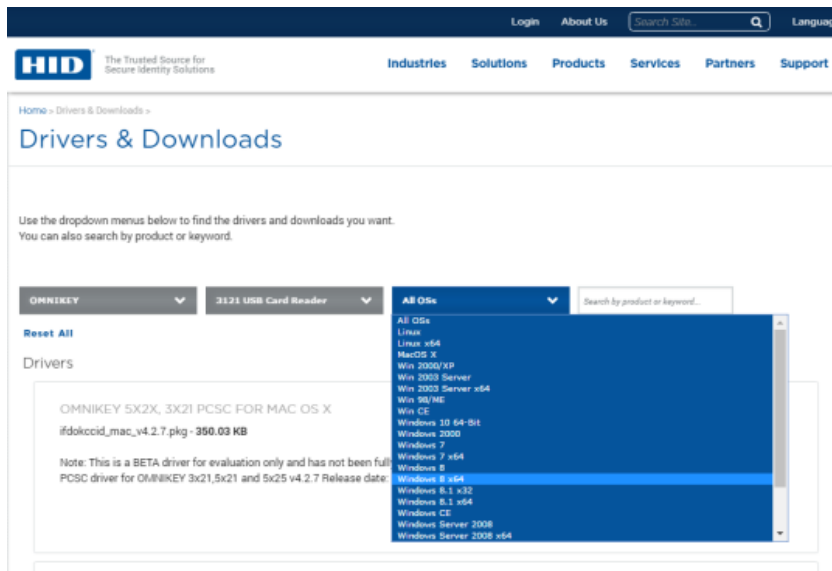- **Integrated and tested with HID technologies**- ActivID ActivClient and Applets, Trusted Tag*

OMNIKEY 5122 Overview

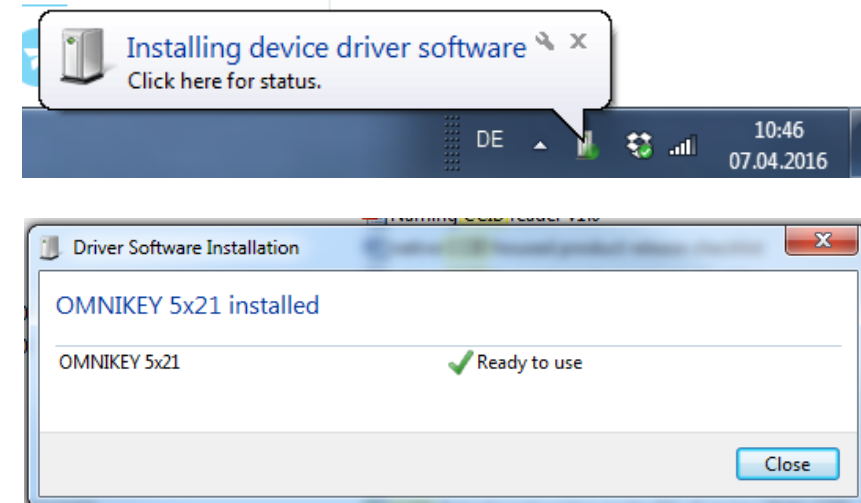## Dual Interface Encoder Contact & Contactless

Compliant with CCID[1]

- Works with native driver from operating system (Win, Mac Linux)

- Automatic installation

Old: Search Driver

New: Do nothing

1) CCID = Chip/Smart Card Interface Device

OMNIKEY 5122 - New Features

		OK5121	OK5122
Hardware	Power Management	-	✅
Interface	CCID	-	✅
	HID proprietary driver	✅	-
Credentials	iCLASS (legacy) MIFARE, DESFire	✅	✅
	ISO 15693	✅	Via driver to be released
	Synchronous Card	-	Pseudo APDU
	NFC Tags	1,2,4	1,2,4 no NTAG
Certifications	TAA, EMVCo (Contact) pending Brazil, Argentina, Russia, Japan, China	-	✅

Powering Trusted Identities

Part of ASSA ABLOY

OMNIKEY 5122 - Broad Range of 13.5 MHz - Contactless Interface

MIFARE™ /DESFire family

- MIFARE™ Classic / Classic EV1
- MIFARE™ Mini / UL /UL EV1 / UL C1
- MIFARE Plus SL0, SL1, SL2, SL3
- MIFARE™ DESFire 0.6, EV1, EV2

iCLASS family

- iClass 2KS - 1p2KS
- iClass 16KS – 8p2KS
- iClass 16KS – 1p16KS
- iClass 32KS – 8p2KS & 1p16KS
- iClass 32KS – 1p16KS & 1p16KS

14443A Technologies

- JCOP 2.4.2 R0 RT3E
- SMART-MX NXP P5CT072
- SEOS J3D081 M59 DF
- ActivID PIV , G&D PIV

14443B Technologies

- Atmel AT88SC0808CRF (UID only)
- Atmel AT88SC0204CRF (UID only)
- Atmel AT88SC3216CRF (UID only)
- Atmel AT88SC1616CRF (UID only)
- Infineon SLE66CLX800PE , SLJ52GDL150CL

OMNIKEY 5122 - Smart Card Interface

ISO 7816

- Industry standard for simple memory cards to microcontroller cards running Java or C# code

- **T=0** or **T=1** protocols up to TA1 = 0x16 (~420kbps)

- TA1=97 up to 600kbps supported with Rev B.

EMVCo

- Chip payment cards - Defined by American Express, Discover, JCB, MasterCard, UnionPay, Visa

- EMVCo Mode based on 7816 with 5V, ATR~1.6s, Extended ATR

Synchronous Cards

- Accessible via custom APDUs (Vendor Specific Synchronous Command Set)
    - S=8 (I2C), e.g. AT24C1024
    - S=9 (2WBP), e.g. SLE4432/42
    - S=10 (3WBP), e.g. SLE4418/28

OMNIKEY 5122 - FAQs

- ## Is there a new FARGO SDK for 5122 ?
  FARGO Printer SDK – there is no change in the printer SDK. Current supports all FARGO printers (1250e,4250e,4500e,1500,5500,HDP5000,HDP6600)
  https://www.hidglobal.com/system/files/dtk/fargosdk_v2.6.0.22.exe

- ## Where can I get the OMNIKEY SDK for the 5122?
  No, OMNIKEY SDK is not available for the 5122 encoder
  Download the sample codes from https://www.hidglobal.com/drivers/30713

- ## Where can I download the user developer guide to help integrate 5122 with my application?
  Download the 5422/5122 Software User developer guide
  https://www.hidglobal.com/sites/default/files/resource_files/plt-03296_a.0_-_omnikey_5422_sw_dev_guide.pdf

- ## Do I need to change my current developed software If using the new 5122 encoder ?
  Yes, Contact & Contactless encoding requires code change due to Pseudo APDU commands directly sent to the encoder.
  Any development using 5122 is a cross platform development (Windows, Linux, Mac)

- ## Is the 5122 compatible with Synchronous cards?
  Yes, 5122 Support Synchronous cards - (Contact Chip / Memory cards- which does not require the microcontroller)

- ## Does the 5122 support the PS/SC Framework?
  Yes, 5122 Supports PC/SC Framework & Scard commands (SCardTransmit, ScardConnect, SCardControl)
  High Level SyncAPI (PC/SC) commands are available for contact cards only

OMNIKEY 5122 - FAQs

- ## What types of MIFARE DESFire Encoding are supported by OMNIKEY 5122 ?
    5122 encoder supports MIFARE Classic / Classic EV1, MIFARE Plus & MIFARE™ DESFire 0.6, EV1, EV2

- ## Is one-wire Ethernet encoding supported by the 5122 encoder?
    No, ONE-WIRE-Ethernet Encoding is not available.

- ## Is it necessary to update the printer firmware to support the 5122 encoder?
    Yes, a new Printer firmware is required to support OMNIKEY 5122. It is backward compatible with OMNIKEY 5121 encoder

- ## Which new features does 5122 support?
    5122 encoder does not require a OMNIKEY Driver. Windows, Mac, Linux will automatically recognize the encoder as a CCID device
    It fully supports low power modes and remote wakeup feature.
    It is EMVCo Certified encoder.

- ## What is the warranty on my recently purchased 5121 encoder?
    Any warranty / service requests for 5121 will be replaced with 5122

- ## Can I order 5121 encoders before September 2022?
    All 5121 upgrade kits and configured printer orders are subject to stock availability.

Thank you

hidglobal.com

HID Powering Trusted Identities

Part of ASSA ABLOY