

# **Extended Access Technologies RFID and Contact Technology Embedded and Desktop**

## **How to Order Guide**

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April 2026





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## Contacts

For technical support, please visit: <https://support.hidglobal.com>.

## What's new

| Date       | Description    | Revision |
|------------|----------------|----------|
| April 2026 | Minor updates. | C.0      |

A complete list of revisions is available in [Revision history](#).



## Contents

|                                                                                    |    |
|------------------------------------------------------------------------------------|----|
| 1. Overview .....                                                                  | 4  |
| 2. Product selector guide - secure identity and general purpose applications ..... | 5  |
| 13.56 MHz contactless and contact reader technology .....                          | 5  |
| 3. OMNIKEY SE Reader Core .....                                                    | 6  |
| 4. HID Mobile Access. ....                                                         | 8  |
| What is HID Mobile Access? .....                                                   | 8  |
| Onboarding and ordering .....                                                      | 8  |
| Solution component overview. ....                                                  | 9  |
| 5. OMNIKEY Secure Element. ....                                                    | 10 |
| Product selector guide – general purpose applications .....                        | 11 |
| 13.56 MHz contactless and contact reader technology .....                          | 11 |
| Multi-ISO - embedded reader family .....                                           | 12 |
| MIFARE Easy embedded readers. ....                                                 | 12 |
| 6. Product selector guide – Logical Access/PC applications .....                   | 13 |
| 13.56 MHz contactless and contact reader technology .....                          | 13 |
| 7. Logical Access/PC applications .....                                            | 14 |
| OMNIKEY Embedded Smart Card Readers, boards, and accessories. ....                 | 14 |
| OMNIKEY Embedded Technology Chipsets. ....                                         | 15 |
| 8. OMNIKEY Desktop Smart Card Readers .....                                        | 16 |
| Accessories ordering guide. ....                                                   | 20 |
| 9. Product selector guide – 125 kHz proximity reader technology. ....              | 21 |
| Embedded reader selector chart - 125 kHz proximity reader technology .....         | 21 |
| 10. 125 kHz contactless embedded reader module ordering .....                      | 22 |
| 125 kHz embedded reader module antennas. ....                                      | 22 |
| 11. Indala Proximity .....                                                         | 23 |
| OMR module ordering guide .....                                                    | 23 |
| 12. 13.56 MHz contactless embedded transponder ordering. ....                      | 24 |
| 207 - iCLASS eUnit ordering guide part numbers and options. ....                   | 24 |
| 507 – Seos eUnit part numbers and options. ....                                    | 25 |
| 13. 125 kHz contactless embedded transponder ordering .....                        | 26 |
| 1390 - eProx Tag Embedded Proximity part numbers and options .....                 | 26 |
| Appendix A - Extended Access Technologies Service Modules .....                    | 27 |
| Summary .....                                                                      | 27 |
| A.1 Definitions. ....                                                              | 27 |
| A.2 Antenna integration .....                                                      | 27 |
| A.3 DTK Support. ....                                                              | 28 |
| A.4 Project Management. ....                                                       | 28 |
| A.5 Ad-hoc Support. ....                                                           | 29 |
| Appendix B - Development Tool Kits .....                                           | 30 |
| B.1 OMNIKEY Secure Element - 3134BNK0000. ....                                     | 30 |
| B.2 OMNIKEY 5x27CK - 3134ANL0000. ....                                             | 31 |
| B.3 OMNIKEY SE Reader Core - 3134BNM0000 .....                                     | 32 |

# 1. Overview

Welcome to Extended Access Technologies by HID.

HID offers a variety of Desktop readers, reader boards and embedded modules designed to meet a variety of requirements for form, fit, and function. Use this How To Order Guide or speak with one of our integration specialists (refer to the following email addresses) to find the housed Reader, Reader Board or module that best meets your requirements across a number of design and use criteria.

## 1.1 Integration specialist contact:

| EMEA                         | Americas                       | APAC                       |
|------------------------------|--------------------------------|----------------------------|
| Connect_Europe@hidglobal.com | Connect_Americas@hidglobal.com | Connect_APAC@hidglobal.com |

## 1.2 Secure Identity and general purpose Solutions

HID is a trusted, worldwide leader in providing RFID solutions for the delivery of Secure Identity. The HID Extended Access Technologies embedded and desktop solutions provide OEMs and end-customers with a unique platform to extend the use of HID technology beyond traditional access control to include applications in banking, cashless payment, biometrics, alarm system control, HVAC, medical devices, laptops, secure print and much more. We offer a wide range of desktop readers, Reader Boards and embedded modules designed to meet a variety of requirements for form, fit, and function.

## 1.3 Logical Access/PC applications

Logical access encompasses a number of PC- and network-related applications including secure authentication and/or log-in to the PC or network, secure email, secure printing, data encryption, file/folder encryption, single sign-on, and remote VPN access. By collaborating with IT industry leaders, HID has complemented its Physical Access Control System (PACS) offerings with an extensive portfolio of logical access offerings and enabling a wide range of logical/physical convergence solutions.

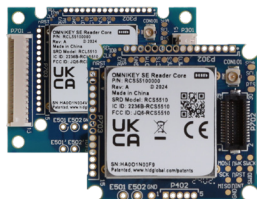
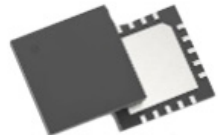
## 1.4 Contactless Embedded Transponders

**Seos® and iCLASS® eUnit** - The HID iCLASS 13.56 MHz transponder can be used in diverse tagging applications such as long-range gate transmitters, containers and key fobs. The iCLASS eUnit is easy to add to any device by gluing, molding or fastening the eUnit Tag transponder to any non-metallic housing

**eProx Tag** - HID's eProx 125 kHz transponder assists third party manufacturers with embedding HID proximity technology into applications such as gate transmitters, key heads, and badges. The eProx transponder comes in a number of form factors with and without a clear poly covering, depending on the coil diameter. The transponder can be easily glued, molded or fastened into any non-metallic housing.

## 2. Product selector guide - secure identity and general purpose applications

### 13.56 MHz contactless and contact reader technology

|                               |                                                                                                                                                            |                                                                                   |                                                                                    |                                                                                                                        |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>DTK</b>                    | 3134BNM0000                                                                                                                                                | Not applicable                                                                    |                                                                                    | 3134BNK0000                                                                                                            |
| <b>Embedded Module</b>        | OMNIKEY SE Reader Core                                                                                                                                     | MIFARE Easy Reader Core                                                           | MIFARE Easy Reader Board                                                           | OMNIKEY Secure Element                                                                                                 |
| <b>Features</b>               | <ul style="list-style-type: none"> <li>OMNIKEY SE Platform</li> <li>Low power for battery applications</li> </ul>                                          | <ul style="list-style-type: none"> <li>MIFARE smart cards</li> </ul>              |                                                                                    | <ul style="list-style-type: none"> <li>OMNIKEY Secure Element Platform</li> <li>Seos Credentials</li> </ul>            |
| <b>Image</b>                  |                                                                           |  |  |                                     |
| <b>Interface(s)</b>           | Wiegand, UART, USART                                                                                                                                       | CMOS TTL                                                                          | RS-232                                                                             | ISO7816 -3 (T=1)                                                                                                       |
| <b>Power</b>                  | Normal supply: 3.5 - 6V<br>3V3 Direct supply: 3.1 - 3.5V                                                                                                   | 5 V DC + or -10% regulated                                                        |                                                                                    | Voltage classes A, B, and C (5 V and 3 V respectively) supported                                                       |
| <b>Current</b>                | Autonomous - pinger: 7.5 uA at 5V, interval 250 ms<br>Autonomous - polling: 52 mA at 5V                                                                    | 150 mA<br><10 mA in power down mode                                               |                                                                                    | Normal Operation - 25mA Max<br>Standby Operation - 100uA (2.7V<Vcc<3.3V)<br>Hibernate Operation - 1uA (1.62V<Vcc<1.98) |
| <b>Antenna(s)'</b>            | Single External HF, off-the-shelf<br>Single External LF, off-the-shelf<br>Single External Bluetooth, off-the-shelf                                         | Single External                                                                   | Single Integrated                                                                  | Not applicable                                                                                                         |
| <b>Contact Slot</b>           | None                                                                                                                                                       | None                                                                              | None                                                                               | Not applicable                                                                                                         |
| <b>Protocol</b>               | Wiegand, HID custom and pass-through                                                                                                                       | Custom ASCII and binary protocol                                                  |                                                                                    | ISO7816 -3 (T=1)                                                                                                       |
| <b>Integration Difficulty</b> | Medium<br>Embedded in host system, Antenna optimization required                                                                                           | Medium                                                                            | Medium                                                                             | Difficult                                                                                                              |
| <b>Size</b>                   | <b>Mini form factor:</b><br>1.1 x 1.2 x 0.28 in<br>(28 x 30.5 x 7.1 mm)<br><br><b>Standard form factor:</b><br>1.3 x 1.7 x 0.29 in<br>(33 x 43.1 x 7.4 mm) | 1.0 x 1.18 x 0.19 in<br>(2.0 x 25.5 x 30.0 mm)                                    | 2.76 x 1.77 x 0.48 in<br>(70.0 x 45.0 x 12.1 mm)                                   | 0.15 x 0.15 in<br>(4 mm x 4 mm)<br>Surface Mount Device<br>VFQFN 20 Pin package                                        |

**Note:** Custom tuning and custom size of antenna available - contact your HID representative for further information

### 3. OMNIKEY SE Reader Core

The HID Global OMNIKEY SE Reader Core is “what’s next” in intelligent physical and logical access for connected workspaces, healthcare environments, education campuses, office buildings and beyond. It is the second component in the reimagined OMNIKEY RFID product platform, which brings together HID’s flagship OMNIKEY® desktop readers and iCLASS® reader modules into a highly regarded RFID user authentication offering.

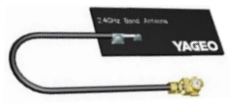
The OMNIKEY SE Reader Core allows integrators to design next-level mobile functionality into devices for physical access, including doors, elevators, turnstiles as well as logical access, including laptops, IT applications, secure printing, vending, smart lockers and much more

| Description                                                                                                                                                                                                                                                               | Base Part #                                                             | Optional Config Suffix | Product Image                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|
| <b>OMNIKEY SE Reader Core - Mini Form Factor</b><br>iCLASS, iCLASS SE/SR, Seos, MIFARE Classic, MIFARE DESFire 0.6, EV1, EV2, EV3 <sup>2</sup> , Mobile credentials powered by Seos (HID Mobile Access)<br>Dimensions:<br>1.1 × 1.2 × 0.28 in<br>(28 × 30.5 × 7.1 mm)     | RCS5510-00-000000 <sup>1</sup><br>RCS5510-00-000000-SAMPLE <sup>3</sup> | - XXXXXX               |  |
| <b>OMNIKEY SE Reader Core - Standard Form Factor</b><br>iCLASS, iCLASS SE/SR, Seos, MIFARE Classic, MIFARE DESFire 0.6, EV1, EV2, EV3 <sup>2</sup> , Mobile credentials powered by Seos (HID Mobile Access)<br>Dimensions:<br>1.3 × 1.7 × 0.29 in<br>(33 × 43.1 × 7.4 mm) | RCL5510-00-000000 <sup>1</sup><br>RCL5510-00-000000-SAMPLE <sup>3</sup> | - XXXXXX               |  |

<sup>1</sup> Minimum orders of 20 pieces, supplied in trays of 20 pieces. Orders for quantities other than multiples of 20 pieces are not possible.

<sup>2</sup> MIFARE DESFire EV2 and EV3 support EV1 compatibility mode.

<sup>3</sup> Minimum order 1 piece and max 9 pieces.

| Model Description                                                                                                                                                        | Base Part Number     | Product Image                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------|
| OMNIKEY SE Reader Core HF Antenna (Air Tuned)<br>1.34 x 1.89 in (34 x 48 mm)<br>Minimum Order Quantity 20 pieces and in multiples of 20.                                 | 4090A10 <sup>1</sup> |    |
| OMNIKEY SE Reader Core HF Antenna (Air Tuned)<br>1.5 x 3.26 in (38 x 83 mm)<br>Minimum Order Quantity 20 pieces and in multiples of 20.                                  | 4090A11 <sup>1</sup> |    |
| OMNIKEY SE Reader Core HF + LF Antenna (Air Tuned)<br>1.34 x 1.89 in (34 x 48 mm)<br>Minimum Order Quantity 20 pieces and in multiples of 20.                            | 4090A16 <sup>1</sup> |    |
| OMNIKEY SE Reader Core Antenna Cable (Pack of 20)<br>2 in (51 mm) For use with RCS55100000<br>Antenna Connector on one end, bare wire connection on other end.           | 4091A10              |    |
| OMNIKEY SE Reader Core Antenna Cable (Pack of 20)<br>2in (51mm) For use with RCL55100000<br>Antenna Connector on one end, OMNIKEY SE Reader Core Connector on other end. | 4091A11              |    |
| OMNIKEY SE Reader Core LF Antenna<br>2.56 x 1.10 x .050 in (65 x 28 x 1.3 mm)<br>Minimum Order Quantity 200 pieces and in multiples of 200.                              | 6500-101-03          |   |
| Bluetooth Smart Antenna (Pack of 20)<br>0.72 x 0.3 x 0.02 in (18.4 x 7.5 x 0.55 mm)                                                                                      | A51270031            |  |
| OMNIKEY SE Reader Core Developer Tool Kit                                                                                                                                | 3134BNM0000          | Image coming soon                                                                     |
| iCLASS SE Test Card Pack<br>Pre-programmed card set to test data output from iCLASS SE and OMNIKEY SE Readers.                                                           | 3156-700             | Image coming soon                                                                     |
| OMNIKEY SE Reader Core DTK Credential Pack for full testing of technology support.                                                                                       | MMP-07904            | Image coming soon                                                                     |

<sup>1</sup> Supplied in trays of 20 pieces packed in boxes of 5 trays (100 pieces in total). Orders for quantities other than multiples of 100 pieces are not possible.

## 4. HID Mobile Access

### What is HID Mobile Access?

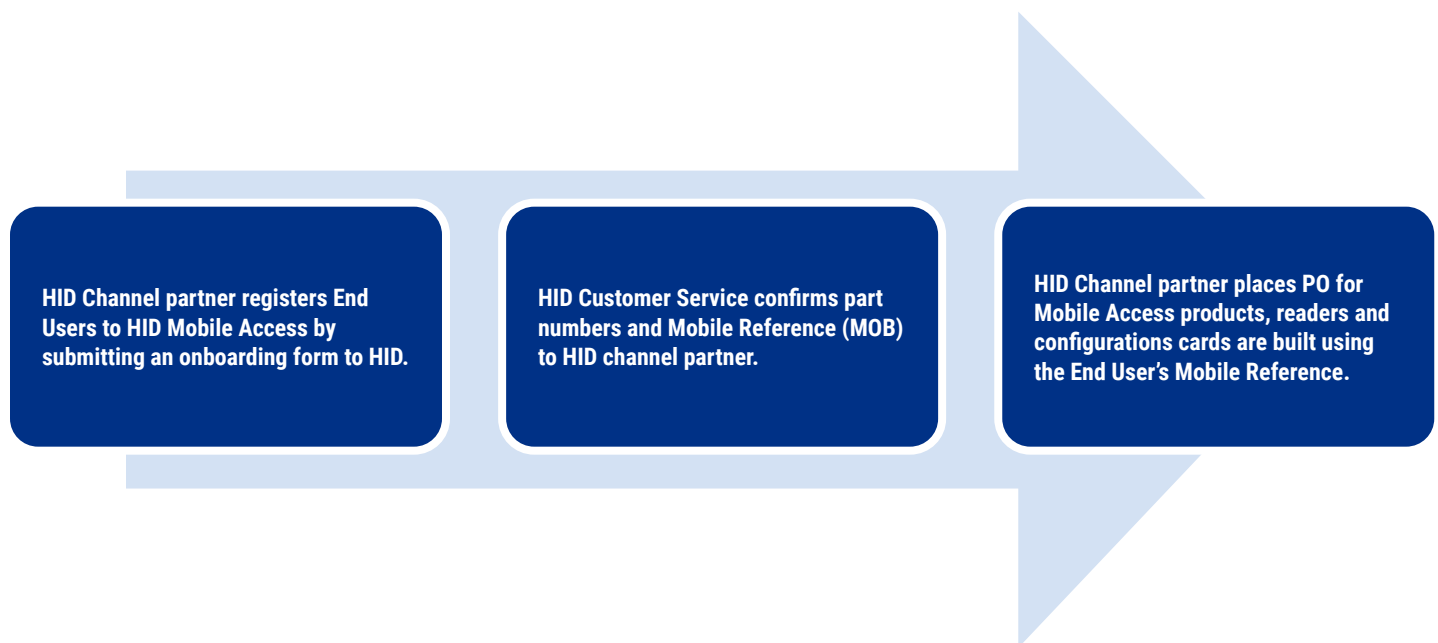
HID Mobile Access® complements your existing credentials based solution. In addition to using cards or fobs, staff can now securely access facilities using their Android or iOS mobile device.

HID Mobile Access, powered by Seos, consists of the following components:

- HID Mobile Access Portal: A management portal that allows you to manage users and securely issue or revoke Mobile IDs to users' handsets. The portal is available as a hosted service.
- HID Mobile Access Application: This app is available for Android and iOS devices, free of charge.
- Mobile IDs: The Mobile IDs with integrated Seos technology are for management of trusted identities.
- iCLASS SE mobile-enabled Readers.

### Onboarding and ordering

The following steps are required to complete onboarding, to be able to order products for use with HID Mobile Access:



To get more information on how to register for HID Mobile Access please contact you HID Sales Representative or HID Customer Service.

Contact information is available at: <http://www.hidglobal.com/customer-service>





## Solution component overview

| Component              | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Supplemental information needed for order |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Mobile Reference (MOB) | Mobile References are specific to a given organization and are confirmed during account setup.<br>The correct Mobile Reference must be supplied when ordering HID Mobile Access Reader, Configuration Cards, and Mobile IDs.                                                                                                                                                                                                                                                                                                 |                                           |
| Mobile IDs             | Mobile IDs are virtual credentials electronically delivered to the Organizations Mobile Access Portal account.<br>Part number:<br>CRD633ZZ-xxxxx<br>Custom Mobile ID, xxxxx specific to organization and issued at time of part number creation.                                                                                                                                                                                                                                                                             | xxxxx specific to organization            |
| Mobile-Ready Readers   | Mobile-Ready readers are prepared to support HID Mobile Access, but lack the personalized configuration to read an organization's specific Mobile IDs. These readers can be ordered at any time but will require field activation after the organization has completed registration for HID Mobile Access. To support a specific organization's Mobile IDs, these readers need to be personalized using a Mobile Key Card.<br>Mobile-Ready readers can be ordered with NFC support only, or NFC and Bluetooth Smart support. |                                           |
| Mobile-Enabled Reader  | Mobile-Enabled readers are fully activated and personalized to support an organization's specific Mobile IDs. These readers can only be ordered after the organization has completed registration for HID Mobile Access and assigned a Mobile Reference (MOB) or HID Elite Reference (ICE). MOB or ICE will be required at time of order.<br>Mobile-Enabled readers can be ordered with NFC support only, or NFC and Bluetooth Smart support.                                                                                | Mobile Reference                          |
| Mobile Key Card        | Configuration card used to personalize and activate a Mobile-Ready reader; converting it to a Mobile-Enabled reader.<br><b>For OMNIKEY 5x27CK Readers:</b><br>Part number: SEC9X-CRD-E-MKYD<br><b>For Readers implementing OMNIKEY Secure Element:</b><br>Part number: SEC-OK-CRD-E-MKYD                                                                                                                                                                                                                                     | Mobile Reference                          |

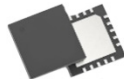
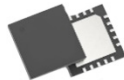
## 5. OMNIKEY Secure Element

The OMNIKEY® Secure Element is HID's next generation secure element replacing the iCLASS SE processor, which has been used in a multitude of different devices in various industries as a key to the HID Ecosystem. So, the story of simple to use, high-end security will continue to the next level.

The OMNIKEY Secure Element enables OEM partners to become part of the HID Ecosystem. This single chip is the key to leverage all the advantages of Seos and other technologies from HID, such as iCLASS® and iCLASS SE®. It can also be used for other card technologies like MIFARE DESFire. It enables reader manufacturers, developers, and system integrators to quickly and easily integrate SIO and allows them to make their devices TIP nodes.

In addition to the enablement of the HID Ecosystem, the feature-rich OMNIKEY Secure Element can also be used for true random number generation, secure key storage, and security enhanced encryption support.

The OMNIKEY Secure Element enhances security with a device and technology-independent layer of additional security on top of device-specific security, acting as a digital data wrapper for additional key diversification, authentication and encryption.

| Description                                                                                                         | Base Part #                                                                    | Optional Custom Suffix | Product Image                                                                         |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------|
| <b>OMNIKEY Secure Element Chip</b><br>Surface Mount Device,<br>0.15 x 0.15 in (4 mm x 4 mm)<br>VFQFN 20 Pin package | SEL55100001<br>(Reel of 200 chips)<br><br>SEL55100000<br>(Reel of 1,000 chips) | XXXXXX                 |    |
| <b>OMNIKEY Secure Element Accessories</b><br>OMNIKEY Secure Element sample pack of 10 chips                         | SEL55100000-SAMPLE                                                             | XXXXXX                 |   |
| <b>OMNIKEY Secure Element Developer Toolkit</b>                                                                     | 3134BNK0000                                                                    | XXXXXX                 |  |
| <b>OMNIKEY Secure Element Card</b><br>ID1/000 Card - ID 1 Card with<br>ID-000 punch out                             | SEL55100002<br>(Minimum Order Quantity 20 cards)                               | XXXXXX                 |  |

| Description                                                                                                           | Part Number      |                                |                                             |
|-----------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------|---------------------------------------------|
|                                                                                                                       | Base Part Number | Elite (E) or Standard Security | Configuration Settings <sup>1</sup>         |
| Elite Upgrade Cards <sup>2</sup><br>Setup OMNIKEY SE Platform readers for Elite credential keys or reader admin keys. | SEC-OK-CRD-      | E = Elite Key <sup>3</sup>     | -P000 = Standard to Elite reader admin keys |
|                                                                                                                       |                  | E = Elite Key <sup>3</sup>     | -P001 = Elite credential keys               |
| Elite DownGrade Cards<br>Setup OMNIKEY SE Platform readers for Elite credential keys or reader admin keys             | SEC-OK-CRD-      | E = Elite key                  | -P002 = Elite to Standard reader admin keys |
|                                                                                                                       |                  | 0 = Standard-1                 | -P003 = Standard 1 credential keys          |

<sup>1</sup> Keys  
Specify Elite "E" or Standard-1/Standard-2 "0" based upon keys ALREADY LOADED in the reader that needs to be configured.

<sup>2</sup> Elite Upgrade Cards  
Reader admin keys and reader credential keys must both be changed to upgrade or downgrade to or from Elite. A separate card is required for reader admin keys and reader credential keys. To complete an Elite upgrade or downgrade a Reader Configuration Card with specific configuration extension may also be required to modify configuration options other than Elite keys, for example modification of 125 kHz or 13.56 MHz interpreters.

<sup>3</sup> Keys  
Specify Elite "E" based upon Elite keys TO BE LOADED in the reader that needs to be configured.

## Product selector guide – general purpose applications

### 13.56 MHz contactless and contact reader technology

|                               |                                                                                                 |                                                                                   |                                                                                                 |                                                                                     |
|-------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>DTK</b>                    | Not applicable                                                                                  |                                                                                   | Not applicable                                                                                  |                                                                                     |
| <b>Embedded Module</b>        | Multi-ISO Reader Core                                                                           | Multi-ISO Reader Board                                                            | MIFARE-Easy Reader Core                                                                         | MIFARE-Easy Reader Board                                                            |
| <b>Features</b>               | 13.56 MHz Smart Cards,<br>RF and Contact Payment Card                                           |                                                                                   | 13.56 MHz Smart Cards,                                                                          |                                                                                     |
| <b>Image</b>                  |                |  |              |  |
| <b>Interface(s)</b>           | CMOS TTL                                                                                        | RS-232                                                                            | CMOS TTL                                                                                        | RS-232                                                                              |
| <b>Power</b>                  | 5 V DC + or - 10% regulated                                                                     |                                                                                   | 5 V DC + or - 10% regulated                                                                     |                                                                                     |
| <b>Current</b>                | 90 - 200 mA depending on<br>antenna (without connected<br>SAM)<br>< 10 mA at power down<br>mode | < 150 mA (without SAM)<br>< 10 mA at power down<br>mode                           | 90 - 150 mA depending on<br>antenna (without connected<br>SAM)<br>< 10 mA at power down<br>mode | 150 mA<br>< 10 mA at power down<br>mode                                             |
| <b>Antenna(s)'</b>            | Single External<br>Integrator must develop                                                      | Single External                                                                   | Single External<br>Integrator must develop                                                      | Single External                                                                     |
| <b>Contact Slot</b>           | Support for single external<br>socket                                                           | 1 × integrated ID-000 socket                                                      | Not applicable                                                                                  |                                                                                     |
| <b>Protocol</b>               | Custom ASCII and Binary Protocol                                                                |                                                                                   | Custom ASCII and Binary Protocol                                                                |                                                                                     |
| <b>Integration Difficulty</b> | Medium                                                                                          |                                                                                   | Medium                                                                                          |                                                                                     |
| <b>Size</b>                   | 1.0 × 1.18 × 0.19 in<br>(2.0 × 25.5 × 30.0 mm)                                                  | 2.76 × 1.77 × 0.48 in<br>(70.0 × 45.0 × 12.1 mm)                                  | 1.0 × 1.18 × 0.19 in<br>(4.8 × 25.5 × 30.0 mm)                                                  | 2.76 × 1.77 × 0.48 in<br>(70.0 × 45.0 × 12.1 mm)                                    |

## Multi-ISO - embedded reader family

The family of 13.56 MHz Multi-ISO Reader Boards supports one of the broadest ranges of transmission protocols and transponder ICs available on the market. Featuring integrated SAM support for security, the highly inter-operable reader boards support a wide range of industry standards including ISO 14443A/B, ISO 15693, ISO 18000-3, and EPC, allowing the reader to be easily used for public transport, financial transaction, and many other applications. The reader board is also optimized for maximum data throughput times on both the air and serial interface, and is available with a variety of antenna size options for easy integration in virtually any mobile or compact application.

| Model                  | Description                               | Part Number  | Product Image                                                                        |
|------------------------|-------------------------------------------|--------------|--------------------------------------------------------------------------------------|
| Multi-ISO Reader Core  | Multi-ISO Reader Core, (F/W V1.2)         | 0701800159-1 |   |
| Multi-ISO Reader Board | Multi-ISO Reader Board, RS-232 (F/W V1.2) | 0701800160   |  |

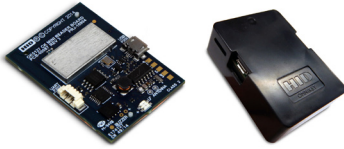
## MIFARE Easy embedded readers

The MIFARE Easy embedded readers are a convenient and cost-efficient solution for systems integrators and terminal manufacturers looking for a secure and scalable solution for use in various general purpose solutions featuring read/write capability, MIFARE Easy reader boards are designed to be easily integrated into compact terminals or mobile units, making them ideal solutions for use in Automatic Fare Collection (AFC) ticket vending machines, card validators, card printers, mobile solutions, and various general purpose devices.

| Model                    | Description                                                                                   | Part Number  | Product Image                                                                         |
|--------------------------|-----------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------|
| MIFARE-Easy Reader Core  | MIFARE Easy Reader Core, TTL (F/W V1.2)                                                       | 0701800133-1 |  |
| MIFARE-Easy Reader Board | MIFARE Easy Reader Board Compact<br>2.7 x 1.77 x 0.47 in (70 x 45 x 12 mm), RS-232 (F/W V1.2) | 0701800029   |  |

## 6. Product selector guide – Logical Access/PC applications

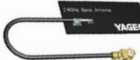
### 13.56 MHz contactless and contact reader technology

|                               |                                                                                                       |                                                                                                                                                                                      |                                                                                     |
|-------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>DTK</b>                    |                                                                                                       | 3134ANL0000                                                                                                                                                                          |                                                                                     |
| <b>Embedded Module</b>        | OMNIKEY 5122                                                                                          | OMNIKEY 5127CK-Mini                                                                                                                                                                  | OMNIKEY 5127CK Reader Core                                                          |
| <b>Features</b>               | <ul style="list-style-type: none"> <li>iCLASS®, MIFARE and Contact</li> <li>USB with PC/SC</li> </ul> | <ul style="list-style-type: none"> <li>HID Prox, iCLASS, iCLASS SE®, iCLASS Seos®, MIFARE and DESFire EV1 CCID, Bluetooth Smart and Key Board Wedge</li> </ul>                       |                                                                                     |
| <b>Image</b>                  |                      |                                                                                                    |  |
| <b>Interface(s)</b>           | USB 2.0 PC/SC Drivers                                                                                 | USB 2.0 CCID, Key Board Wedge and UART (5127CK-Mini only)                                                                                                                            |                                                                                     |
| <b>Power</b>                  | USB Bus Powered                                                                                       | USB Bus Powered                                                                                                                                                                      |                                                                                     |
| <b>Current</b>                | USB Bus Powered                                                                                       | USB Bus Powered                                                                                                                                                                      |                                                                                     |
| <b>Antenna(s)¹</b>            | Integrated on Board                                                                                   | Integrated on Board                                                                                                                                                                  | External HF/LF Antenna<br>External Bluetooth Antenna                                |
| <b>Contact Slot</b>           | 1 × Integrated ID-1 Slot                                                                              | None                                                                                                                                                                                 |                                                                                     |
| <b>Protocol</b>               | CCID<br>ISO7816 T=0, T=1<br>ISO14443A+B, T=CL<br>HID Custom for iCLASS                                | PC/SC (ready for 2.01, in CCID mode)<br>Human Interface Device (in Keyboard Wedge Mode)                                                                                              |                                                                                     |
| <b>Integration Difficulty</b> | Easy                                                                                                  | Easy                                                                                                                                                                                 | Medium<br>Embedded in host system, antenna optimization required                    |
| <b>Size</b>                   | <b>5122</b><br>2.6 × 2.16 × 0.43 in (66 × 55 × 11 mm)                                                 | <b>5127CK Mini Reader Board</b><br>1.96 × 1.38 × 0.35 in (50 × 35 × 8.94 mm)<br><br><b>5127CK Mini Reader Board with Industrial Housing</b><br>2.2 × 1.6 × 0.63 in (55 × 40 × 16 mm) | <b>5127CK Reader Core</b><br>1.06 × 1.02 × 0.21 in (27 × 26 × 5.3 mm)               |

## 7. Logical Access/PC applications

### OMNIKEY Embedded Smart Card Readers, boards, and accessories

OMNIKEY® Embedded Readers are designed to enable integrators to build solutions for contact and contactless security, loyalty and government applications. They are ideal devices for organizations that need to integrate a highly secure contact and/or contactless PC connected smart card reader board, which in turn enables end-users to use advanced security applications to experience the convenience of contactless technology. The OMNIKEY Embedded Readers were developed as an easy design-in device; just mount the reader board in the product away from metal, connect the USB interface, build an application based on CCID or Keyboard wedge standard and you are up and running in no time.

| Model                      | Description                                                                                                                                                                            | Part Number                                                                                                                                                                | Product Image                                                                         |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 5127CK-Mini Reader Board   | OK 5127CK Mini contactless CCID and Keyboard Wedge Reader Board<br>MOQ 20 units and must be ordered in multiples of 20                                                                 | R51270210<br>R51270210-Elite <sup>1</sup><br>R51270210-Indala <sup>1</sup><br>R51270210-UART <sup>1</sup><br>R51270210-UNI <sup>1</sup><br>R51270210-UART-UNI <sup>1</sup> |    |
| 5127CK-Mini Reader Board   | OK 5127CK-Mini contactless CCID and Keyboard Wedge Reader Board with Industrial Housing and integrated buzzer                                                                          | R51270220<br>R51270220-Elite <sup>1</sup><br>R51270220-Indala <sup>1</sup><br>R51270220-UNI <sup>1</sup><br>R51270220-UNI-Elite <sup>1</sup>                               |    |
| 5127CK Reader Core         | OK 5127CK Reader Core Contactless CCID and Keyboard Wedge Reader Core with optional external Bluetooth Smart and HF/LF Antennas<br>MOQ 20 units and must be ordered in multiples of 20 | R51270230<br>R51270230-Elite <sup>1</sup><br>R51270230-Elite-Indala <sup>1</sup><br>R51270230-Indala <sup>1</sup><br>R51270230-UNI <sup>1</sup>                            |  |
| 5127CK Reader Core Antenna | OK 5127CK Reader Core HF/LF Antenna<br>MOQ 20 units and must be ordered in multiples of 20                                                                                             | A51270030                                                                                                                                                                  |  |
| 5127CK Reader Core Antenna | OK 5127CK Reader Core Bluetooth Smart Antenna<br>MOQ 20 units and must be ordered in multiples of 20                                                                                   | A51270031                                                                                                                                                                  |  |
| 5122 Reader Board          | OK 5122 contact and contactless reader board<br>MOQ 100 units and must be ordered in multiples of 100                                                                                  | R51220349                                                                                                                                                                  |  |
| 3121 Reader Board          | OK 3121 Contact Smart Card Reader Board with USB Interface<br>MOQ 100 units and must be ordered in multiples of 100                                                                    | R31210375-1 (with Cable)<br>R31210376 (Flash Memory with Cable)<br>R31210374 (Landing contacts and confrom with Cable)                                                     |  |
| 3121 Reader Board Holder   | PCB clip to hold the OMNIKEY 3121 reader board                                                                                                                                         | A00000017                                                                                                                                                                  |  |

<sup>1</sup> Available Q3 2026



## OMNIKEY Embedded Technology Chipsets

| Description                                                                                                                                       | Base Part Number | Product Image                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|
| OMNIKEY Smart@Link Chipset (FW 1.3.1)<br>USB Support<br>Pre-certified (EMV2000, CCID)<br>32-pin QFN chip<br>Standard MOQ 4,900pieces <sup>1</sup> | C30210310        |  |

<sup>1</sup> Only available in multiples of the MOQ (for example, 4,900, 9,800, 14,700 and so on).

## 8. OMNIKEY Desktop Smart Card Readers

Each OMNIKEY® Smart Card Reader has a unique part number. These numbers are as listed below and always represent the standard product. Customized products will receive an individual part number upon confirmation of the order. All part numbers must be complete for acceptance by The HID order entry system.

Due to organizational changes, product improvements, and firmware changes, part numbers of OMNIKEY Smart Card Readers can be subject to change.

The following ordering is available for OMNIKEY Readers.

\*TAA - Trade Agreements Act of 1979. The TAA is an Act of Congress that governs trade agreements negotiated between the United States and other countries. Provided is a list of countries in which United States institutions may purchase devices.

| OMNIKEY Model PC Interface | Customization Options                                                                                                          | Description                                                                                                                                                                                             | Part Number  | Solution Compatibility                                         | Product Image                                                                         |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 3021 USB                   | <ul style="list-style-type: none"> <li>• Logo</li> <li>• Housing Color</li> <li>• Cable</li> </ul>                             | <ul style="list-style-type: none"> <li>• USB 2.0</li> <li>• EMV, CCID</li> <li>• Transparent/ gray housing</li> <li>• MOQ 100</li> <li>• Order quantity multiples of 100</li> </ul>                     | R30210315-1  | <ul style="list-style-type: none"> <li>• Crescendo®</li> </ul> |    |
| 3121 USB                   | <ul style="list-style-type: none"> <li>• Logo</li> <li>• Housing Color</li> <li>• Cable</li> <li>• Landing Contacts</li> </ul> | <ul style="list-style-type: none"> <li>• USB 2.0</li> <li>• EMV, CCID</li> <li>• Standard standing base</li> <li>• MOQ 100</li> <li>• Order quantity multiples of 100</li> </ul>                        | R31210320-01 | <ul style="list-style-type: none"> <li>• Crescendo</li> </ul>  |  |
| 3121 USB (TAA)             | <ul style="list-style-type: none"> <li>• Logo</li> <li>• Housing Color</li> <li>• Cable</li> <li>• Landing Contacts</li> </ul> | <ul style="list-style-type: none"> <li>• USB 2.0</li> <li>• EMV, CCID</li> <li>• Standard standing base</li> <li>• MOQ 10</li> <li>• Order quantity multiples of 10</li> <li>• TAA compliant</li> </ul> | R31210349-1  | <ul style="list-style-type: none"> <li>• Crescendo</li> </ul>  |  |



| OMNIKEY Model PC Interface | Customization Options                                                     | Description                                                                                                                                                                                                                                                                                                                                                                | Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Solution Compatibility                                                                                                    | Product Image                                                                         |
|----------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 5022 CL USB                | <ul style="list-style-type: none"> <li>• Logo</li> <li>• Cable</li> </ul> | <ul style="list-style-type: none"> <li>• Contactless (13.56 MHz) Desktop Reader</li> <li>• Available in two color options</li> <li>• Available with different cable lengths</li> <li>• Available with choice of USB-A and USBC connector</li> <li>• Optional Card Retainer and Mounting Accessories</li> <li>• MOQ 10</li> <li>• Order quantity multiples of 10</li> </ul> | <b>R50220318-DB (Dark Blue USB A, 1.5m Cable)</b><br><b>R50220318-GR (Gray USB A, 1.5m Cable)</b><br><b>R50220319-DB (Dark Blue, USB A, 13cm Cable)</b><br><b>R50220319-GR (Grey, USB A, 13cm Cable)</b><br><b>R50220320-DB (Dark Blue, USB C, 1.5m Cable)</b><br><b>R50220320-GR (Grey, USB C, 1.5m Cable)</b><br><b>R50220321-DB (Dark Blue, USB C, 13cm Cable)</b><br><b>R50220321-GR (Grey, USB C, 13cm Cable)</b><br>(See <a href="#">"Mounting Accessory Pack"</a> and <a href="#">"Card Retainer"</a> ) | <ul style="list-style-type: none"> <li>• iCLASS</li> </ul>                                                                |    |
| 5022 CL USB                | <ul style="list-style-type: none"> <li>• Not applicable</li> </ul>        | <ul style="list-style-type: none"> <li>• Contactless (13.56MHz) Desktop Reader</li> <li>• IP67 rating allowing cleaning/ disinfection and use in damp environments</li> <li>• USB A Connector</li> <li>• MOQ 10</li> <li>• Order quantity multiples of 10</li> </ul>                                                                                                       | <b>R50220318-CR</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>• iCLASS</li> </ul>                                                                |   |
| 5023 USB                   | <ul style="list-style-type: none"> <li>• Logo</li> <li>• Cable</li> </ul> | <ul style="list-style-type: none"> <li>• Contactless (13.56 MHz) Desktop Reader with integrated Secure Element</li> <li>• Optional Card Retainer and Mounting Accessories</li> <li>• MOQ 10</li> <li>• Order quantity multiples of 10</li> </ul>                                                                                                                           | <b>R50230318-DB (Dark Blue)</b><br>(See <a href="#">"Mounting Accessory Pack"</a> and <a href="#">"Card Retainer"</a> )                                                                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>• iCLASS</li> <li>• iCLASS SE®</li> <li>• iCLASS Elite</li> <li>• Seos®</li> </ul> |  |
| 5025 CL USB                | <ul style="list-style-type: none"> <li>• Logo</li> <li>• Cable</li> </ul> | <ul style="list-style-type: none"> <li>• Contactless (125 kHz) Desktop Reader for HID Prox Credentials</li> <li>• Full CCID compatibility</li> <li>• For Thin- and Zeroclients</li> <li>• 5325CL compatibility mode</li> <li>• Optional Card Retainer and Mounting Accessories</li> <li>• MOQ 10</li> <li>• Order quantity multiples of 10</li> </ul>                      | <b>R50250001-GR (Gray)</b><br>(See <a href="#">"Mounting Accessory Pack"</a> and <a href="#">"Card Retainer"</a> )                                                                                                                                                                                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>• HID Prox</li> </ul>                                                              |  |
| 5027 CL USB                | <ul style="list-style-type: none"> <li>• Logo</li> <li>• Cable</li> </ul> | <ul style="list-style-type: none"> <li>• Contactless (13.56 MHz) Desktop Reader with integrated Secure Element</li> <li>• Keyboard Wedge Operation</li> <li>• Optional Card Retainer and Mounting Accessories</li> <li>• MOQ 10</li> <li>• Order quantity multiples of 10</li> </ul>                                                                                       | <b>R50270001 (Dark Blue)</b><br>(See <a href="#">"Mounting Accessory Pack"</a> and <a href="#">"Card Retainer"</a> )                                                                                                                                                                                                                                                                                                                                                                                           | <ul style="list-style-type: none"> <li>• iCLASS</li> <li>• iCLASS SE®</li> <li>• iCLASS Elite</li> <li>• Seos®</li> </ul> |  |

| OMNIKEY Model PC Interface                                          | Customization Options                                                             | Description                                                                                                                                                                                                                                                                                                                                                     | Part Number                                                                                                                                                                                                                                                                                                                                                                                                                   | Solution Compatibility                                                                                                                                                                                                                                                                | Product Image                                                                         |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 5422 USB                                                            | <ul style="list-style-type: none"> <li>• Logo</li> <li>• Cable</li> </ul>         | <ul style="list-style-type: none"> <li>• Dual Interface (13.56 MHz Contactless and Contact Reader)</li> <li>• Compatible with all major smart card technologies, tags and new technologies such as NFC</li> <li>• Supports HID iCLASS, MIFARE and MIFARE DESFire as well as ISO 7816 and ISO 14443 A/B</li> </ul>                                               | <b>R54220301</b><br>(See <a href="#">“Vertical Standing Base (black)”</a> , <a href="#">“Mounting Accessory Pack”</a> , and <a href="#">“Card Retainer”</a> )                                                                                                                                                                                                                                                                 | <ul style="list-style-type: none"> <li>• Crescendo</li> <li>• iCLASS</li> </ul>                                                                                                                                                                                                       |    |
| 5427CK Gen 2.1 (USB Interface)                                      | <ul style="list-style-type: none"> <li>• Logo</li> <li>• Cable</li> </ul>         | <ul style="list-style-type: none"> <li>• Contactless (13.56 MHz and 125 kHz HID Prox) Smart Card Reader</li> <li>• Mobile Access support only over NFC</li> <li>• Seos support</li> <li>• CCID or Keyboard Wedge Operation Mode</li> <li>• Closed Housing</li> <li>• Web-based configuration interface</li> <li>• Transparent card retainer</li> </ul>          | <b>R54270201</b><br><b>R54270201-Elite<sup>1</sup></b><br><b>R54270201-Elite-Indala<sup>1</sup></b><br><b>R54270201-Indala<sup>1</sup></b><br>(See <a href="#">“Vertical Standing Base (black)”</a> , <a href="#">“Mounting Accessory Pack”</a> , and <a href="#">“Card Retainer”</a> )                                                                                                                                       | <ul style="list-style-type: none"> <li>• HID Prox</li> <li>• Indala</li> <li>• iCLASS</li> <li>• iCLASS SE</li> <li>• iCLASS Elite</li> <li>• Seos</li> <li>• Mobile Access (NFC only)</li> </ul>                                                                                     |    |
| 5427CK Gen 2.1 (USB Interface/ PC Interface) with Bluetooth support | <ul style="list-style-type: none"> <li>• Logo</li> <li>• Cable</li> </ul>         | <ul style="list-style-type: none"> <li>• Contactless (13.56 MHz and 125 kHz HID Prox) Smart Card Reader</li> <li>• Mobile Access support over Bluetooth and NFC</li> <li>• Seos support</li> <li>• CCID or Keyboard Wedge Operation Mode</li> <li>• Closed Housing</li> <li>• Web-based configuration interface</li> <li>• Transparent card retainer</li> </ul> | <b>R54270211</b> (Mobile ready reader)<br><b>R54270211-Elite<sup>1</sup></b> (Mobile enabled reader)<br><b>R54270211-Elite-Indala<sup>1</sup></b> (Mobile enabled reader)<br><b>R54270211-Indala<sup>1</sup></b> (Mobile ready reader)<br><b>R54270211-UNI<sup>1</sup></b><br><b>R54270211-UNI-Elite<sup>1</sup></b><br>(See <a href="#">“Vertical Standing Base (black)”</a> and <a href="#">“Mounting Accessory Pack”</a> ) | <ul style="list-style-type: none"> <li>• HID Prox</li> <li>• Indala</li> <li>• iCLASS</li> <li>• iCLASS SE</li> <li>• iCLASS Elite</li> <li>• MIFARE Classic</li> <li>• MIFARE DESFire</li> <li>• MIFARE Plus</li> <li>• Mobile Access (Bluetooth and NFC)</li> <li>• Seos</li> </ul> |   |
| RDU55200 OMNIKEY SE Plug                                            | Not applicable                                                                    | <ul style="list-style-type: none"> <li>• Contactless (13.56 MHz) USB Reader</li> <li>• Integrated Secure Element</li> <li>• Compact size with integrated USB-C connector</li> <li>• Single packed - MOQ 20</li> </ul>                                                                                                                                           | RDU55200-00-000000<br>RDU55200B-00-000000 (Bulk packed - MOQ 50 and multiples of 50)                                                                                                                                                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>• HID Mobile Access (NFC)</li> <li>• iCLASS</li> <li>• iCLASS SE</li> <li>• iCLASS Elite</li> <li>• MIFARE DESFire</li> <li>• Seos</li> </ul>                                                                                                  |  |
| RDU55210 OMNIKEY Plug                                               | Not applicable                                                                    | <ul style="list-style-type: none"> <li>• Contactless (13.56 MHz) USB Reader</li> <li>• Compact size with integrated USB-C connector</li> <li>• Single packed - MOQ 20</li> </ul>                                                                                                                                                                                | RDU55210-00-000000                                                                                                                                                                                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>• MIFARE DESFire</li> <li>• MIFARE Classic</li> <li>• MIFARE Plus</li> </ul>                                                                                                                                                                   |  |
| 6121 USB Dongle                                                     | <ul style="list-style-type: none"> <li>• Logo</li> <li>• Housing Color</li> </ul> | <ul style="list-style-type: none"> <li>• EMV, CCID</li> <li>• ISO 7816 SIM-Size (ID-000) contact slot</li> <li>• USB 2.0 Key-ring attachable</li> <li>• EMV, CCID</li> <li>• MOQ 100</li> <li>• Order quantity multiples of 100</li> </ul>                                                                                                                      | R61210320-2                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                       |  |

<sup>1</sup> Available Q3 2026



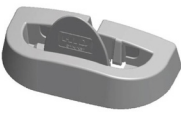
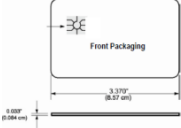
| Description                                                                                                                              | Part Number      |                                    |                                             |
|------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------|---------------------------------------------|
|                                                                                                                                          | Base Part Number | Elite (E) or Standard Security (0) | Configuration Settings <sup>1</sup>         |
| Elite Upgrade Cards <sup>2</sup><br>Setup OMNIKEY 5x27CK or legacy iCLASS SE Platforms for Elite credential keys or reader admin keys.   | SEC9X-CRD-       | E = Elite Key <sup>3</sup>         | -P000 = Standard to Elite reader admin keys |
|                                                                                                                                          |                  | E = Elite Key <sup>3</sup>         | -P001 = Elite credential keys               |
| Elite Downgrade Cards <sup>2</sup><br>Setup OMNIKEY 5x27CK or legacy iCLASS SE Platforms for Elite credential keys or reader admin keys. | SEC9X-CRD-       | E = Elite Key <sup>1</sup>         | -P002 = Elite to Standard reader admin keys |
|                                                                                                                                          |                  | 0 = Standard-1                     | -P003 = Standard 1 credential keys          |

<sup>1</sup> Keys  
Specify Elite "E" or Standard-1/Standard-2 "0" based upon keys ALREADY LOADED in the reader that needs to be configured.

<sup>2</sup> Elite Upgrade and Downgrade Cards  
Reader admin keys and reader credential keys must both be changed to upgrade or downgrade to or from Elite. A separate card is required for reader admin keys and reader credential keys. To complete an Elite upgrade or downgrade a Reader Configuration Card with specific configuration extension may also be required to modify configuration options other than Elite keys, for example modification of 125 kHz or 13.56 MHz interpreters.

<sup>3</sup> Keys  
Specify Elite "E" based upon Elite keys TO BE LOADED in the reader that needs to be configured.

## Accessories ordering guide

| Accessory                        | Description                                                                                                                                                                                                                   | Part Number | Solution Compatibility                                                                                                                                                                                                               | Product Image                                                                         |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Heavy standing base 31xx         | <ul style="list-style-type: none"> <li>Heavy standing base</li> <li>Middle piece</li> <li>Weight includes middle piece</li> <li>100 gram</li> </ul>                                                                           | A00000002   | <ul style="list-style-type: none"> <li>OMNIKEY 3121</li> </ul>                                                                                                                                                                       |    |
| Mounting Accessory Pack          | <ul style="list-style-type: none"> <li>Packaging size 10 pcs.</li> <li>Mounting Jacket for Screw-on mount</li> <li>Mounting Jacket Camera mounting screw use (hex nut)</li> <li>Adhesive Strip for mounting jacket</li> </ul> | A50210001   | <ul style="list-style-type: none"> <li>OMNIKEY 5021<sup>1</sup></li> <li>OMNIKEY 5022</li> <li>OMNIKEY 5023</li> <li>OMNIKEY 5025</li> <li>OMNIKEY 5027</li> <li>OMNIKEY 5421</li> <li>OMNIKEY 5422</li> <li>OMNIKEY 5427</li> </ul> |    |
| Card Retainer                    | <ul style="list-style-type: none"> <li>Packaging size 10 pcs.</li> <li>Card Retainer for card-present operation</li> </ul>                                                                                                    | A50210002   | <ul style="list-style-type: none"> <li>OMNIKEY 5021<sup>1</sup></li> <li>OMNIKEY 5022</li> <li>OMNIKEY 5023</li> <li>OMNIKEY 5025</li> <li>OMNIKEY 5027</li> </ul>                                                                   |    |
| Card Retainer                    | <ul style="list-style-type: none"> <li>Packaging size 10 pcs.</li> <li>Card Retainer for card-present operation</li> </ul>                                                                                                    | A54210001   | <ul style="list-style-type: none"> <li>OMNIKEY 5421</li> <li>OMNIKEY 5422</li> <li>OMNIKEY 5427</li> </ul>                                                                                                                           |  |
| Vertical Standing Base (black)   | <ul style="list-style-type: none"> <li>Standing base for vertical reader</li> <li>Supports card-present operation</li> <li>Weight approx. 90 gram</li> <li>Packaging size 1 pcs.</li> </ul>                                   | A54270001   | <ul style="list-style-type: none"> <li>OMNIKEY 5427</li> </ul>                                                                                                                                                                       |  |
| Vertical Standing Base (gray)    | <ul style="list-style-type: none"> <li>Standing base for vertical reader</li> <li>Supports card-present operation</li> <li>Weight approx. 90 gram</li> <li>Packaging size 1 pcs.</li> </ul>                                   | A54210002   | <ul style="list-style-type: none"> <li>OMNIKEY 5421</li> <li>OMNIKEY 5422</li> </ul>                                                                                                                                                 |  |
| Configuration Card for OK5427 CK | <ul style="list-style-type: none"> <li>Packaging size 1 pcs.</li> <li>Configuration Card for OK5427CK</li> <li>8K Bytes MIFARE DESFire EV3</li> <li>Not programmed</li> </ul>                                                 | 800FNGGNN   | <ul style="list-style-type: none"> <li>OMNIKEY 5427CK</li> </ul>                                                                                                                                                                     |  |

<sup>1</sup> Accessories are not compatible with OMNIKEY 5022 IP67 variant (R50220318-CR).

## 9. Product selector guide – 125 kHz proximity reader technology

### Embedded reader selector chart - 125 kHz proximity reader technology

|                               |                                                                                                 |                                                                                                                             |
|-------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>DTK</b>                    | 3134BNC0000                                                                                     | 3134AND0000                                                                                                                 |
| <b>Embedded Module</b>        | MCM                                                                                             | ProxPoint™ Plus                                                                                                             |
| <b>Features</b>               | <ul style="list-style-type: none"> <li>• HID Prox</li> <li>• Board Mounted Component</li> </ul> | <ul style="list-style-type: none"> <li>• HID Prox</li> <li>• Full Prox Reader Capabilities - Just Connect and Go</li> </ul> |
| <b>Image</b>                  |                |                                          |
| <b>Interface(s)</b>           | <ul style="list-style-type: none"> <li>• Wiegand</li> <li>• Clock-and-Data</li> </ul>           | <ul style="list-style-type: none"> <li>• Wiegand</li> <li>• Clock-and-Data</li> </ul>                                       |
| <b>Power</b>                  | +4.5 - 5.5 V DC<br>Voltage Regulation                                                           | +5 - 16 V DC                                                                                                                |
| <b>Current</b>                | <150 mA                                                                                         | <100 mA                                                                                                                     |
| <b>Integration Difficulty</b> | Difficult                                                                                       | Easy                                                                                                                        |
| <b>Size</b>                   | 0.85 x 0.85 x 0.16 in (21.59 x 21.59 x 4.06 mm)                                                 | 2.3 x 1.4 x 0.311 in (58.4 x 35.6 x 7.9 mm)                                                                                 |



## 10. 125 kHz contactless embedded reader module ordering

**ProxPoint™ Plus** - The HID ProxPoint Plus OEM Module is a full-featured HID Proximity reader board that provides access to the industry's largest 125 kHz contactless card population. Ideal for OEM application developers who need to interface to HID proximity cards to implement third-party applications, ProxPoint Plus is HID's first proximity OEM Module that comes fully equipped with beeper, LED, and stock antenna to deliver full reader functionality. Simple interface and installation allows OEM applications access to all HID proximity card formats, including both short and long card formats.

**eProx MCM** - The Multi-Chip Module (MCM) provides the functions of an HID proximity reader on a single integrated circuit. The Prox by HID technology easily integrates to an existing electronic module and is able to be surface mounted to an existing PCB. The MCM enables adding RFID technology to a wide array of electronic devices, including alarm panels, electronic door locks, biometric readers, logical access devices, and process control equipment.

| Card Reader Description                                                                    | Base Part #  | Current Rev # | Module Options                                       | Hardware Options                                                                                                                                           | Configuration Setting Options <sup>1</sup>                                                                  | Custom <sup>2</sup> |
|--------------------------------------------------------------------------------------------|--------------|---------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------|
| Multi Chip Module (MCM) <sup>3</sup>                                                       | 4025         | A             | 1 = None                                             | 205 = Clock-and-Data w/ Standard Start-up<br>401 = Wiegand w/Quick Start-up (Quick start disabled)<br>402 = Wiegand w/Quick Start-up (Quick start enabled) |                                                                                                             | XXXX Y              |
| ProxPoint OEM Module <sup>4</sup><br>• With Wiegand output<br>• With Clock and Data output | 4065<br>4068 | A             | L = Board only<br>A = Board and Antenna <sup>5</sup> | N = None                                                                                                                                                   | LED Options:<br>00 (Default)<br>05                      07<br><b>Note:</b> No beeper options are available. | XXXX Y              |
| ProxPoint Plus OEM Module <sup>4</sup><br>• With Wiegand output                            | 4065         | B             | L = Board only                                       | C = No LED and no Beeper                                                                                                                                   | LED/Beeper Options<br>00                                                                                    | XXXX Y              |

\* Revision numbers and availability are subject to change without notice. Some product may require a signed Non-Disclosure agreement.

<sup>1</sup> Configuration Setting Options for ProxPoint OEM Modules are as follows (factory programmed):

00 = Beep on, LED normally red, reader flashes green on tag read.

05 = Beep off, LED normally red, host must flash green.

07 = Beep off, LED normally off, host must flash red and/or green (option not available for 4068).

<sup>3</sup> Multi Chip Modules (MCM) are packaged in multiples of 25. Minimum order quantity is 25 pieces; orders will be accepted in multiples of 25 or 100 pieces thereafter.

<sup>4</sup> Only pre-existing ProxPoint customers can order the ProxPoint OEM Module Revision A (4065A and 4068A).

All new customers looking to embed HID Proximity technology with a ProxPoint solution must order the ProxPoint Plus OEM Module Revision B (4065B).

<sup>5</sup> OEM module board and antenna are shipped disconnected.

### 125 kHz embedded reader module antennas

| Part Number | Description                                                                                 |
|-------------|---------------------------------------------------------------------------------------------|
| 40-0008-01  | 125 kHz, Air Tuned Antenna, 3.75 × 1.20 in (95.3 × 30.5 mm), use with eProx Lock            |
| 40-0032-02  | 125 kHz, Air Tuned Antenna, 2.22 × 1.43 in (56.4 × 36.3 mm), use with ProxPoint OEM and MCM |



# 11. Indala Proximity

## OMR module ordering guide

| Part Number | Description                              |
|-------------|------------------------------------------|
| FP5120      | OMR-705+, board w/ antenna               |
| FP0500A/L   | Flexpass MR reader module – 120" pigtail |

## 12. 13.56 MHz contactless embedded transponder ordering

### 207 - iCLASS eUnit ordering guide part numbers and options

The iCLASS® eUnit Contactless Smart Embedded Tag offers read/write capability. There is a minimum order of 100 units, and thereafter in multiples of 25. Make sure to select the appropriate choices and complete the full order form.

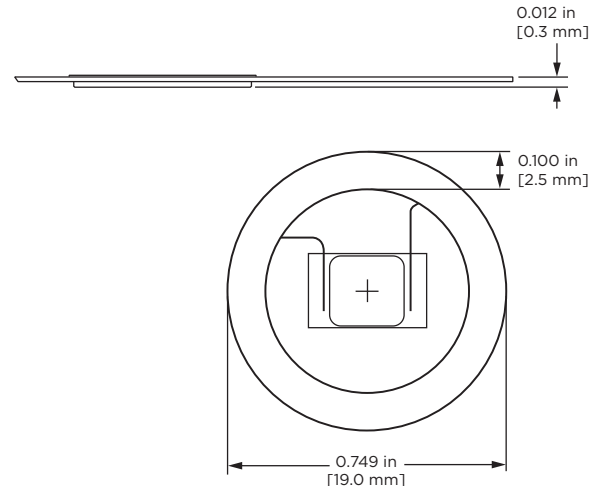
#### ☒ 207 Base Model

##### iCLASS memory size and allocation (check one)

- ☐ **0** - 2k Bits (256 Bytes) with 2 application areas  
☐ **1** - 16k Bits (2k Bytes) with 2 application areas  
☐ **2** - 16k Bits (2k Bytes) with 16 application areas  
☐ **3** - 32k Bits (4K Bytes) Application areas 16k/2+16k/1  
☐ **4** - 32k Bits (4K Bytes) Application areas 16k/16+16k/1

##### Programming (check one)

- ☐ **C** - Configured, for use with iCLASS SE® Encoder (legacy iCLASS encoding) Programming Information Not Required.  
☐ **V** - Configured, for use with iCLASS SE Encoder. (iCLASS SE encoding) Programming Information Not Required.  
☐ **M** - Programmed with Secure Identity Object™ (SIO®). Specify Programming Information.  
☐ **H** - Programmed with Secure Identity Object (SIO) and iCLASS Legacy encoding. Specify Programming Information.  
☐ **P** - Programmed iCLASS. Specify Programming Information.



##### Coil option

- ☒ **N** - Max diameter: 0.749 in (19.0 mm) / Max thickness: 0.012 in (0.3 mm)

##### Packaging option

- ☒ **N** - None

##### Tag numbering

- ☒ **N** - None

##### Hardware option

- ☒ **N** - None

Enter your final card options from the above selections. Example: 2071PNNNN

|                   |     |  |  |   |   |   |   |
|-------------------|-----|--|--|---|---|---|---|
| Final Part Number | 207 |  |  | N | N | N | N |
|-------------------|-----|--|--|---|---|---|---|

#### iCLASS 13.56 MHz Programming Information

| Bit Numbers<br>(e.g. 26 bit) | Format Number<br>(e.g. H10301) | HID Elite ICE<br>number | Facility Code | Custom Formats |           |          |
|------------------------------|--------------------------------|-------------------------|---------------|----------------|-----------|----------|
|                              |                                |                         |               | Site Code      | City Code | OEM Code |
|                              |                                |                         |               |                |           |          |

| Internal Card Number |      | External Card Number |      | PIN (2-12 digits): <input type="checkbox"/> |                |
|----------------------|------|----------------------|------|---------------------------------------------|----------------|
| Start                | Stop | Start                | Stop | Sequential: Start #                         | Random: Length |
|                      |      |                      |      |                                             |                |

|                       |  |
|-----------------------|--|
| Special Instructions: |  |
|-----------------------|--|





507 – Seos eUnit part numbers and options

The iCLASS® Seos eUnit Contactless Smart Embedded Tag offers read/write capability. There is a Minimum order of 500 units, and thereafter in multiples of 500. Make sure to select the appropriate choices and complete the full order form.

☒ 507 Base Model

iCLASS Seos memory size and allocation

☒ 6 - 8K Bytes)

Programming

☒ V - Configured for use with iCLASS SE Encoder – Programming Information Not Required.

Coil option

☒ N - Max diameter: 1.06 in (26.9 mm)  
Max thickness: 0.002 in (0.26 mm)

Packaging option

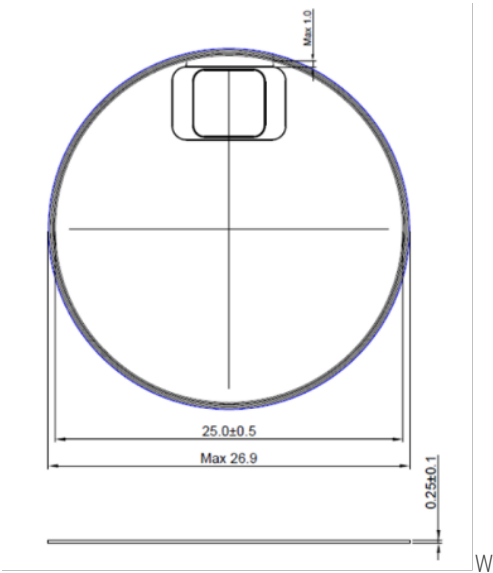
☒ N - None

Tag numbering

☒ N - None

Hardware option

☒ N - None



|                   |     |   |   |   |   |   |   |
|-------------------|-----|---|---|---|---|---|---|
| Final Part Number | 507 | 6 | V | N | N | N | N |
|-------------------|-----|---|---|---|---|---|---|

## 13. 125 kHz contactless embedded transponder ordering

### 1390 - eProx Tag Embedded Proximity part numbers and options

Make sure to select the appropriate choices and complete the full order form.

Bare coils and clear tags must be ordered in multiples of 100.

☒ **1390 Base Model**

#### Programming (check one)

☐ **L** - Programmed, Low Frequency (125 kHz). Specify Programming Information.

☐ **N** - Non-Programmed, Low Frequency (125 kHz). Programming Information Not Required.

#### Coil option (check one)

☐ **N** - Standard, 0.866 in (22mm) Round Coil, Direct Connect Chip

☐ **A** - 0.984 in (25 mm) Round Coil, Direct Connect Chip

☐ **B** - 0.677 in (17 mm) Round Coil, Direct Connect Chip

#### Packaging option (check one)

☐ **N** - None (bare coil)

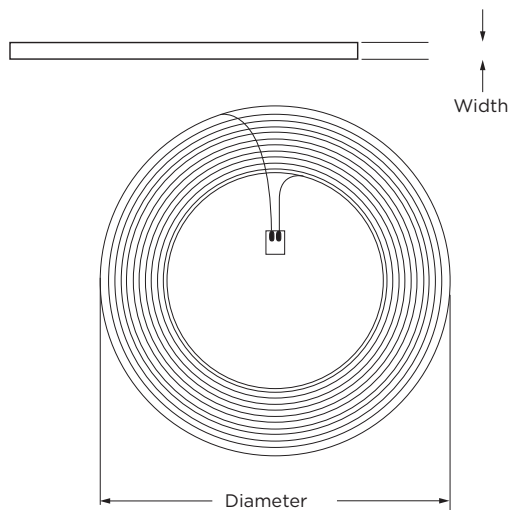
☐ **C** - Clear Tag, Clear Polyester Covering (option not available for Standard 22mm Round coil)

#### Tag numbering

☒ **N** - None

#### Hardware option

☒ **N** - None



Enter your final tag options from the above selections. Example: 1390NNNNN

|                   |      |  |  |  |   |   |
|-------------------|------|--|--|--|---|---|
| Final Part Number | 1390 |  |  |  | N | N |
|-------------------|------|--|--|--|---|---|

#### Size Table

| Coil Option | Packaging Option N - Bare Coil |                    | Packaging Option C - Clear Tag |                   |
|-------------|--------------------------------|--------------------|--------------------------------|-------------------|
|             | Max Diameter                   | Max Thickness      | Max Diameter                   | Max Thickness     |
| N           | 0.866 in (22 mm)               | 0.033 in (0.8 mm)  | Not applicable                 | Not applicable    |
| A           | 0.984 in (25 mm)               | 0.015 in (0.39 mm) | 1.200 in (30.5 mm)             | 0.031 in (0.8 mm) |
| B           | 0.677 in (17.2 mm)             | 0.015 in (0.39 mm) | 0.886 in (22.5 mm)             | 0.031 in (0.8 mm) |
| E           | Not applicable                 | Not applicable     | 0.807 in (20.5 mm)             | 0.031 in (0.8 mm) |

#### 125 kHz Tag Programming Information

| Bit Numbers<br>(e.g. 26 bit) | Format Number<br>(e.g. H10301) | Facility Code | Custom Formats |           |          |
|------------------------------|--------------------------------|---------------|----------------|-----------|----------|
|                              |                                |               | Site Code      | City Code | OEM Code |
|                              |                                |               |                |           |          |

| Internal Tag Number |      |
|---------------------|------|
| Start               | Stop |
|                     |      |

|                       |  |
|-----------------------|--|
| Special Instructions: |  |
|-----------------------|--|

# Appendix A - Extended Access Technologies Service Modules

## Summary

The HID Extended Access Technologies (EAT) business unit depends on the successful integration of its many products and technologies into OEM and partner products in order to have a successful finished product and/or service that supports the needs of the end customer. To ensure these integrations happen successfully, the EAT Pre-Sales and Technical Support team support a wide variety of identification and authentication devices, which can be integrated into 3rd party hardware, and software, environments. The depth of the integration varies depending on the desired end-product, the skills and capabilities of the partner/customer, the application, and the targeted use-case. A perfect integration is necessary for the finished solution to achieve the desired technical and business results.

To support this objective, the HID EAT business unit offers a variety of consulting packages, to assist our integration partner in defining, implementing, deploying, and supporting these projects, ensuring a quality product or solution is achieved that meets the end customers' needs.

## A.1 Definitions

Below is a summary of key terms related to these technical support packages:

### Content

- What is the service deliverable from HID?
- What does the customer receive?
- What are the benefits for the customer?

### Efforts

What efforts are required from the EAT technical support team? This also includes set-up and preparation times.

## A.2 Antenna integration

### Part-No.

EAT-TS-ANT

### Content

- Workshop (on-site, remote) about antenna integration, for HF, LF, Bluetooth Low Energy (LE) requirements for optimized performance, do's and don'ts, measurement methods.
- Remote support answering occurring questions.
- On-site antenna integration check-up, performance measurement.
- Documentation about the performance measurement results, confirmation that integration follows HID specifications, advises how to increase performance.

### Package delivery

|                 |                |
|-----------------|----------------|
| Workshop:       | <b>1 day</b>   |
| Remote support: | <b>0.5 day</b> |
| Check-up:       | <b>1 day</b>   |
| Documentation   | <b>2 days</b>  |



## A.3 DTK Support

### Part-No.

EAT-TS-DTK

### Content

The main purpose of this technical support package is to separate pricing of the DTK (Developer Tool Kit) from the additional support services being offered by HID.

- Allows for flexible pricing of the DTK product, to meet different partner needs.
- Allows partners to purchase the DTK for a lower price without support.

The package provides a training overview of the DTK including its contents and how to use it. Additionally remote support (phone/web) is provided.

### Package delivery

|                 |                                                       |
|-----------------|-------------------------------------------------------|
| Training        | <b>0.5 day</b>                                        |
| Remote Support: | <b>2 days</b> (16 hrs, distributed over several days) |

## A.4 Project Management

### Part-No.

EAT-TS-PRJ

### Content

Provides a named contact to the customer for all technical communications and an interface between the customer and HID EAT field applications engineers, technical support and engineering. Project Management controls and drives the progress of the project. The engagement starts with a project kick-off workshop from which a design specification document will be created. This document contains:

- Definition of the project target
- Identified gaps
- Integration steps and timelines
- Test conditions to evaluate project achievement

### Package delivery

|                     |                                                                     |
|---------------------|---------------------------------------------------------------------|
| Workshop            | <b>1 day</b>                                                        |
| Documentation:      | <b>2 days</b>                                                       |
| Project Management: | <b>5 days</b> (split over several days during the project duration) |



## A.5 Ad-hoc Support

**Part-No.**

EAT-TS-ADH

**Content**

Flexible package to provide on-site or remote support on partner/customer request on a daily basis. Package may provide, but is not limited to:

- Technical training
- Configuration assistance
- Integration review

**Package delivery:**

|                 |         |
|-----------------|---------|
| On-site/remote: | Per day |
|-----------------|---------|

## Appendix B - Development Tool Kits

| Part Number | Description                                 |
|-------------|---------------------------------------------|
| 3134BNK0000 | OMNIKEY Secure Element Development Tool Kit |
| 3134ANL0000 | 5x27 CK Development Tool Kit                |
| 3134BNM0000 | OMNIKEY SE Reader Core Development Tool Kit |

### B.1 OMNIKEY Secure Element - 3134BNK0000



#### Developer tools

The DTK License key provides access to the Developer Portal where all Drivers, Software, Documentation, and Release Notes can be downloaded.

| Reader Boards and Accessories                                                                                                                                                            | Sample Credentials                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 10 - OMNIKEY Secure Element<br>1 - 3121 Desktop Reader<br>1 - 5022 Desktop Reader<br>1 - OMNIKEY Secure Element Mother board<br>1 - OMNIKEY Secure Element Daughter board (QFN20 socket) | 1 – HID MIFARE DESFire EV1 Card 8K<br>1 - iCLASS SE Card 32K<br>1 – HID MIFARE Classic Card 4K<br>1 – HID iCLASS Seos Card 8K |



B.2 OMNIKEY 5x27CK - 3134ANL0000



Developer tools

The DTK License key provides access to the Developer Centre where all Drivers, Software, Documentation, and Release Notes can be downloaded.

| Reader Boards and Accessories                                                                                                                                                                                                                                                                                                                             | Sample Credentials                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 - 5427CK Reader (With Bluetooth LE Support for Mobile Access)<br>1 – 5127CK-Mini Reader Board<br>1 – 5127CK Mini Reader Board + Industrial Housing<br>1 – 5127CK Reader Core<br>1 – 5127CK Reader Core HF/LF Antenna<br>1 – 5127CK Reader Core HF/LF Antenna + Spacer<br>1 - 5127CK Reader Core Bluetooth Antenna<br>1 - 5127CK Reader Core USB Adapter | 1 - MIFARE Classic 4K Card<br>1 - MIFARE DESFire EV1 Card<br>1 - iCLASS 16K/16 Card<br>1 - HID ISOPROX II Card<br>1 - iCLASS Seos 8K Card<br>1 - Indala Flexpass Card |



B.3 OMNIKEY SE Reader Core - 3134BNM0000



Developer tools

The DTK License key provides access to the Developer Centre where all Drivers, Software, Documentation, and Release Notes can be downloaded.

| Reader Boards and Accessories                                                                                                                                                                                                                                                                                                                                                                       | Sample Credentials                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 1 - OMNIKEY SE Reader Core Mini<br>1 - OMNIKEY SE Reader Core Standard<br>1 - Development Board Assembly<br>1 - OMNIKEY Secure Element Test Credential Pack<br>1 - HF Antenna and cable (38mm x 83mm)<br>1 - HF Antenna and cable (34mm x 48mm)<br>1 - HF/LF combined Antenna and cable<br>1 - LF Antenna<br>1 - Bluetooth Antenna assembly<br>1 - USB A to RS232 cable<br>1 - USB to TTL Converter | 1 - HID MIFARE DESFire EV1 Card 8K<br>1 - iCLASS SE Card 32K<br>1 - HID iCLASS Seos Card 8K<br>1 - HID MIFARE Classic Card 4K |





## Revision history

| Date          | Description                                                                                                                                                                                                                                             | Revision |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| April 2026    | Minor updates.                                                                                                                                                                                                                                          | C.0      |
| March 2026    | Minor updates.                                                                                                                                                                                                                                          | B.9      |
| January 2026  | Added MIFARE Classic, MIFARE DESFire and MIFARE Plus to 5427 Solution Compatibility. Added MIFARE DESFire HID Mobile Access (NFC) to RDU55200 Solution Compatibility. Added OMNIKEY RDU55210 OMNIKEY Plug to the Desktop Smart Card Readers table.      | B.8      |
| August 2025   | Minor updates.                                                                                                                                                                                                                                          | B.7      |
| August 2025   | Minor updates.                                                                                                                                                                                                                                          | B.6      |
| April 2025    | Updated minimum and maximum order quantities for OMNIKEY SE Reader Core, added product images for accessories. Added RDU55200 OMNIKEY SE Plug information, and revised information for Section 10. 125 kHz contactless embedded reader module ordering. | B.5      |
| December 2024 | Updated minimum order quantities for OMNIKEY SE Reader Core and OMNIKEY Smart@Link Chipset, added Bluetooth Smart Antenna.                                                                                                                              | B.4      |
| May 2024      | Added OMNIKEY SE Reader Core, removed iCLASS SE Reader Module. Minor updates.                                                                                                                                                                           | B.3      |
| February 2024 | Minor updates.                                                                                                                                                                                                                                          | B.2      |
| January 2024  | Added OMNIKEY Secure Element Card and OMNIKEY 5022 CR USB. Removed Elite Downgrade Cards.                                                                                                                                                               | B.1      |
| November 2023 | Removed MCM2 and Prox Point Plus Development Tool Kits.                                                                                                                                                                                                 | B.0      |
| October 2023  | Added new options for OMNIKEY 5022 CL USB, added 3121 Reader Board Holder.                                                                                                                                                                              | A.9      |
| April 2023    | Updated minimum order quantity values for the iCLASS SE Reader Module.                                                                                                                                                                                  | A.8      |
| January 2023  | Removed iCLASS SE Processor section. Added Configuration Card information for OMNIKEY Secure Element,                                                                                                                                                   | A.7      |
| March 2022    | Added OMNIKEY SE Module and removed iCLASS SE Processor (Section 2). Added new part number options (Sections 5 and 6).                                                                                                                                  | A.6      |
| January 2022  | Updated minimum order quantity and order quantity multiple values for 5022 CL USB, 5023 USB, and 5025 CL USB.                                                                                                                                           | A.5      |
| November 2021 | Added OMNIKEY Secure Element. Updated to latest HID branding.                                                                                                                                                                                           | A.4      |
| July 2021     | Updated OMNIKEY Desktop Smart Card Readers section.                                                                                                                                                                                                     | A.3      |
| January 2021  | Added iCLASS Seos eUnit.                                                                                                                                                                                                                                | A.2      |
| July 2020     | Added 5127CK Reader Core. Revised OMNIKEY DTK. Removed eProx Lock.                                                                                                                                                                                      | A.1      |
| February 2020 | Amalgamation of Embedded Solutions and OMNIKEY How to Order Guides                                                                                                                                                                                      | A.0      |



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