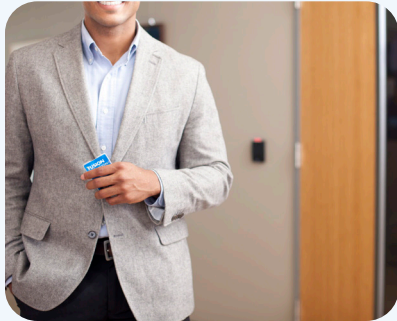


HID® ELEMENT™ Card Encoding Modules

Simplified, inline personalization of secure credentials in a single step



HID ELEMENT card encoding modules enable organizations to print and encode credentials in a one-step, inline process — saving both time and money when producing secure IDs and financial cards. Using inline card personalization, users have greater flexibility and end-to-end control over their card procurement, inventory management and card issuance processes. Additionally, by combining printing and encoding within a single device, organizations can rest assured all card recipient-specific data is included on each user's card, further extending the overall security of the card issuance program.

HID card encoding modules also extend the value of HID ELEMENT UV inkjet printing and laser engraving systems by allowing organizations to create cards that are compatible not only with HID products but also with other card/physical access control systems and third-party applications.

This technology-agnostic approach to card personalization offers organizations more flexibility in selecting access control systems and greater control over their credentials.

Select any HID ELEMENT card encoding module option to extend read/write capability for third-party applications such as physical access, time & attendance and cashless vending, among others. What's more, with the HID ELEMENT programmer card encoding module, users can create and program cards that are specifically compatible with HID physical access solutions. This can prove especially beneficial to organizations desiring to upgrade existing card populations for use with the higher security iCLASS SE platform.

Offering a wide array of inline card encoding technologies, HID ELEMENT can meet the needs of virtually any secure credential issuance program. Further, because modules are fully field-upgradeable, HID ELEMENT encoding can be added or changed at any time to support new card personalization or evolving security needs as your requirements change over time.



AVAILABLE ENCODING MODULES:

- **Contactless** — Utilizing the OMNIKEY® 5127CK-Mini, contactless encoding simultaneously supports low and high frequency credentials, including iCLASS Seos®, HID Prox®, iCLASS SE® MIFARE Classic® and MIFARE® DESFire® EV1/EV2
- **Contact** — Utilizing the OMNIKEY 5122, contact encoding integration is quick and easy, with unparalleled support and compatibility with ISO 7816 standards
- **Magnetic Stripe** — Standard magnetic stripe encoding delivers ISO 7811, dual high- and low-coercivity compatibility
- **Programmer** — Utilizing the OMNIKEY 5127 iCLASS SE, programmer encoding affords users the ability to encode the HID Access Control Application area of either Genuine HID or third-party credentials with ease
- **Third-party Encoding Module** — Leverage Smartware® encoding technology for simultaneous contactless and contact encoding in a single, expedient pass

HID ELEMENT CARD ENCODING MODULES PROVIDE:

- Flexible and easy-to-integrate encoding options for read/write capability
- An optional Developer Tool Kit (DTK), which allows for integration with your credential management system
- Field-upgradeable solutions that can support new card personalization and security needs as your requirements change over time

| Printer Encoder | Description | HID ACCESS CONTROL APPLICATION AREA | | | | | | | THIRD PARTY APPLICATION AREA | | |
|-----------------------------------|------------------|---|-----------------------------|-----------------|------------------|------------|-------------------|------------------------|------------------------------|------------------|------------|
| | | Supported Card Types | Card Standards | Read Capability | Write Capability | Custom Key | Elite Key Support | Corporate 1000 Support | Read Capability | Write Capability | Custom Key |
| HID OMNIKEY® 5122 | Contact | Contact smart cards | ISO 7816 Class A, AB and C | N/A | N/A | N/A | N/A | N/A | Yes | Yes | Yes |
| HID OMNIKEY® 5127CK Mini | Contactless | HID iCLASS Seos™ | ISO 14443 A | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes |
| | | HID iCLASS SE (SIO Enabled) | ISO 14443 B, ISO 15693 | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes |
| | | HID iCLASS SR (Standard + SIO) | ISO 14443 B, ISO 15693 | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes |
| | | HID iCLASS® (Standard) | ISO 14443 B, ISO 15693 | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes |
| | | HID MIFARE Classic® | ISO 14443 A | Yes | No | N/A | N/A | Yes | Yes | Yes | Yes |
| | | MIFARE Classic | ISO 14443 A | N/A | N/A | N/A | N/A | N/A | Yes | Yes | Yes |
| | | SIO Solution for MIFARE Classic | ISO 14443 A | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes |
| | | MIFARE DESFire® EV1/ EV2 | ISO 14443 A | N/A | N/A | N/A | N/A | N/A | Yes | Yes | Yes |
| | | SIO Solution for MIFARE DESFire EV1/EV2 | ISO 14443 A | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes |
| | | FeliCa™ | | No | No | No | No | No | Yes | Yes | Yes |
| | | HID Indala® Prox | | Yes | No | N/A | N/A | N/A | N/A | N/A | N/A |
| EM Prox | | Yes | No | N/A | N/A | N/A | N/A | N/A | N/A | | |
| HID Prox | | Yes | No | N/A | N/A | N/A | N/A | N/A | N/A | | |
| HID iCLASS SE® Encoder | Programmer | HID iCLASS Seos | ISO 14443 A | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | | HID iCLASS SE (SIO Enabled) | ISO 14443 B, ISO 15693 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | | HID iCLASS SR (Standard + SIO) | ISO 14443 B, ISO 15693 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | | HID iCLASS (Standard) | ISO 14443 B, ISO 15693 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | | HID MIFARE Classic | ISO 14443 A | Yes | Yes | N/A | N/A | Yes | Yes | Yes | Yes |
| | | MIFARE Classic | ISO 14443 A | N/A | N/A | N/A | N/A | N/A | Yes | Yes | Yes |
| | | SIO Solution for MIFARE Classic | ISO 14443 A | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | | MIFARE DESFire EV1/EV2 | ISO 14443 A | N/A | N/A | N/A | N/A | N/A | Yes | Yes | Yes |
| | | SIO Solution for MIFARE DESFire EV1/EV2 | ISO 14443 A | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | | HID Indala Prox | | No | No | N/A | N/A | N/A | N/A | N/A | N/A |
| | | EM Prox | | No | No | N/A | N/A | N/A | N/A | N/A | N/A |
| HID Prox | | Yes | Yes | N/A | N/A | N/A | N/A | N/A | N/A | | |
| Third Party Encoder Module | Smartware USN1se | Contact smart cards* | ISO 7816 Class A, AB and C* | N/A | N/A | N/A | N/A | N/A | Yes | Yes | Yes |
| | | Contactless cards* | ISO 14443, ISO 15693* | Yes | No | No | No | No | Yes | Yes | Yes |
| | Open** | Contact smart cards | Open** | N/A | N/A | N/A | N/A | N/A | Yes | Yes | Yes |
| | | Contactless cards | Open** | Yes | No | No | No | No | Yes | Yes | Yes |

*Refer to Smartware USN1se specifications for contact/contactless card and standards compatibility

**Open third party encoder module is supplied with contact pin station and contactless card antenna for integrator implementation of controller board



hidglobal.com

North America: +1 512 776 9000 | Toll Free: 1 800 237 7769

Europe, Middle East, Africa: +44 1440 714 850

Asia Pacific: +852 3160 9800 | Latin America: +52 (55) 9171-1108

For more global phone numbers click here

For encoding module driver downloads, please visit www.hidglobal.com/omnikey

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