



**SIMPLIFIED, INLINE PERSONALIZATION OF SECURE CREDENTIALS IN A SINGLE STEP**



- **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.
- **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

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.



For encoding module driver downloads, please visit [www.hidglobal.com/omnikey](http://www.hidglobal.com/omnikey).

## SPECIFICATIONS

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
<b>HID OMNIKEY® 5122</b>	Contact	Contact smart cards	ISO 7816 Class A, AB and C	N/A	N/A	N/A	N/A	N/A	Yes	Yes	Yes
<b>HID OMNIKEY® 5127CK Mini</b>	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	ISO 14443 A	N/A	N/A	N/A	N/A	N/A	Yes	Yes	Yes
		SIO Solution for MIFARE DESFire EV1	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		
<b>HID iCLASS SE® Encoder</b>	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	ISO 14443 A	N/A	N/A	N/A	N/A	N/A	Yes	Yes	Yes
		SIO Solution for MIFARE DESFire EV1	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		
<b>Third Party Encoder Module</b>	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



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