

# OMNIKEY® 5127 iCLASS SE® Embedded Encoder



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

- **One-Step, Inline Process for Printing and Encoding Physical Access Credentials** — Streamline and speed credential ordering, inventory management and issuance processes by encoding physical access data onto cards in select FARGO® and other third-party printers. In one seamless step, users can personalize the card, both graphically and electronically.
- **Supports HID Global's iCLASS SE® Platform** — Provides encoding of credentials interoperable with a wide range of iCLASS SE readers.
- **Encodes/Reads Multiple Physical Access Credential Technologies** — Supports a wide range of technologies, including iCLASS Seos™, iCLASS SE, iCLASS®, PROX, MIFARE® Classic and MIFARE DESFire™ EV1, all within a single device.
- **Field Upgradeable** — Compatible FARGO® printers can be easily enhanced with the OMNIKEY 5127 iCLASS SE Embedded Encoder. Simply download new software applets to provide additional card technology support as your program evolves.
- **Flexible Key Management** — Locally manage proprietary cryptographic keys or leverage HID's Secure Identity Services™ to meet the demands of your credentialing program.

### The OMNIKEY® 5127 iCLASS SE® Embedded Encoder includes a number of additional features/capabilities:

- Secure Identity Object® (SIO™) adds a layer of protection to identity data, as well as additional key diversification, authentication and encryption, such as AES-128. It also includes a secure messaging protocol for trust-based communication that operates with HID Global's Trusted Identity Platform® (TIP™). These features bring enhanced card-to-reader security and increased privacy, and can be programmed to work with any physical access control system.
- Standard security or HID Elite™ credentials can be programmed directly on to the encoder.
- An optional Developer Tool Kit (DTK) allows integration into your credential management system.
- Uses an open and adaptable Seos™ protocol so that any card printer manufacturer could integrate the embedded encoder into their printers.

HID Global's OMNIKEY 5127 iCLASS SE Embedded Encoder is an ideal solution for enabling organizations to print and encode physical access credentials in a single-step process. With this simple, end-to-end solution, businesses can save time and money by producing secure credentials for their employees, contractors and vendors. Using inline card personalization, users can have greater flexibility and end-to-end control over their card procurement, inventory management and issuance processes. Additionally, by combining printing and encoding within a single device, businesses can rest assured that their company- or employee-specific data is included on each user's card, further increasing the security of the card issuance program.

The OMNIKEY 5127 iCLASS SE Embedded Encoder also extends the value of FARGO® printers/encoders. By using the encoder with select printers (see compatibility chart), businesses can create cards that are compatible with HID products and other card/physical access control systems. This technology-agnostic approach to card personalization offers organizations more flexibility in selecting access control systems and greater control over their contactless credentials. Additionally, it provides ultimate versatility in key management, allowing HID Global to directly manage the card's security keys or leaving it to an organization to securely define and manage its keys locally.

Combining the functionality of existing HID Global encoders, the OMNIKEY 5127 iCLASS SE Embedded Encoder can program credentials to operate with HID Global iCLASS SE readers, which support iCLASS Seos™, iCLASS SE®, iCLASS, MIFARE® DESFire EV1 and other technologies. As a result, users are able to encode Genuine HID® or third-party credentials as they upgrade existing card populations for use with the higher security iCLASS SE platform. For seamless migration from low-frequency credentials, the encoder also supports HID Prox® (read only).

A combination of software applets and encoder credits (available via a simple download) provide maximum technology flexibility and a future-proof solution that supports new credential technologies that will meet an organization's ever-evolving business needs.

When used with the full suite of HID readers, cards and printers, the OMNIKEY 5127 iCLASS SE Embedded Encoder provides users with the peace of mind that comes from using a single source of seamlessly integrated products. The OMNIKEY 5127 iCLASS SE Embedded Encoder is part of HID Global's portfolio of FARGO® printer/encoder solutions, which can meet the needs of virtually any secure credential issuance program, now and in the future.



## COMPATIBILITY

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 Support
HID OMNIKEY® 5125	Low frequency-125 kHz	HID 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 Indala® Prox		Yes	No	N/A	N/A	N/A	N/A	N/A	N/A
		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® 5121	High frequency-13.56 MHz	HID iCLASS®	ISO 14443 B, ISO 15693	Yes	No	No	Yes	Yes	Yes	Yes	Yes
		HID MIFARE Classic®	ISO 14443 A	No	No	No	N/A	N/A	Yes	Yes	Yes
		MIFARE Classic	ISO 14443 A	No	No	N/A	N/A	N/A	Yes	Yes	Yes
		MIFARE DESFire® EV1	ISO 14443 A	No	No	N/A	N/A	N/A	Yes	Yes	Yes
		Contact smart cards	ISO 7816 Class A, AB and C	N/A	N/A	N/A	N/A	N/A	Yes	Yes	Yes
HID iCLASS SE® Encoder	High frequency-13.56 MHz	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		Phase two	Phase two	N/A	N/A	N/A	N/A	N/A	N/A
		EM Prox		Phase two	Phase two	N/A	N/A	N/A	N/A	N/A	N/A
		HID Prox		Yes	Yes	N/A	N/A	Yes	N/A	N/A	N/A
Contact smart cards	ISO 7816 Class A, AB and C	N/A	N/A	N/A	N/A	N/A	Phase two	Phase two	Phase two		

## CONFIGURATIONS

	Magnetic Encoding	5121 Contactless	5125 Contactless	Contact Station Only	iCLASS SE® 5127 Encoder Contactless
<b>FARGO® HDP8500 Encoder Options</b>	Base unit - dual-sided printer	Base unit - dual-sided printer	Base unit - dual-sided printer	Base unit - dual-sided printer	Base unit - dual-sided printer
<b>Combined with the Following</b>					
<b>5121 Contactless</b>	Base unit - dual-sided printer				
<b>5125 Contactless</b>	Base unit - dual-sided printer	Base unit - dual-sided printer			
<b>Contact Station Only</b>	Base unit - dual-sided printer	Base unit - dual-sided printer	Base unit - dual-sided printer		
<b>iCLASS SE® 5127 Encoder Contactless</b>	Base unit - dual-sided printer	N/A	N/A	N/A	
<b>FARGO® HDP5000/HDP5600 Encoder Options</b>	Single or dual-sided printers	Single or dual-sided printers	Single or dual-sided printers	Dual-sided printers only	Single or dual-sided printers
<b>Combined with the Following</b>					
<b>5121 Contactless</b>	Single or dual-sided printers				
<b>5125 Contactless</b>	Single or dual-sided printers	Dual-sided printers only			
<b>5121 with Contact Station</b>	Dual-sided printers only	N/A	Dual-sided printers only		
<b>5125 with Contact Station</b>	Dual-sided printers only	Dual-sided printers only	N/A	N/A	
<b>iCLASS SE® 5127 Encoder Contactless</b>	Single or dual-sided printers	N/A	N/A	N/A	N/A
<b>FARGO® DTC5500LMX Encoder Options</b>	1 or 2 material	1 or 2 material	1 or 2 material		
<b>Combined with the following</b>					
<b>5121, 5125 Contactless and Contact Station</b>	1 or 2 material				
<b>5127 Encoder Contactless</b>	1 or 2 material				
<b>FARGO® DTC1250e/DTC4250e/DTC4500e Encoder Options</b>	Single or dual-sided printers (All included in factory-ordered product) (Sell separately for field upgrade)				Single or dual-sided printers
<b>FARGO® DTC1000/DTC4000/DTC4500</b>	Single or dual-sided printers	Single or dual-sided printers	Single or dual-sided printers	Single or dual-sided printers	
<b>Combined with the Following</b>					
<b>5121 Contactless</b>	Single or dual-sided printers				
<b>5125 Contactless</b>	Single or dual-sided printers	Single or dual-sided printers			
<b>Contact Station Only</b>	Single or dual-sided printers	Single or dual-sided printers	Single or dual-sided printers		
<b>iCLASS SE® 5127 Encoder Contactless</b>	Single or dual-sided printers	N/A	N/A	N/A	

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