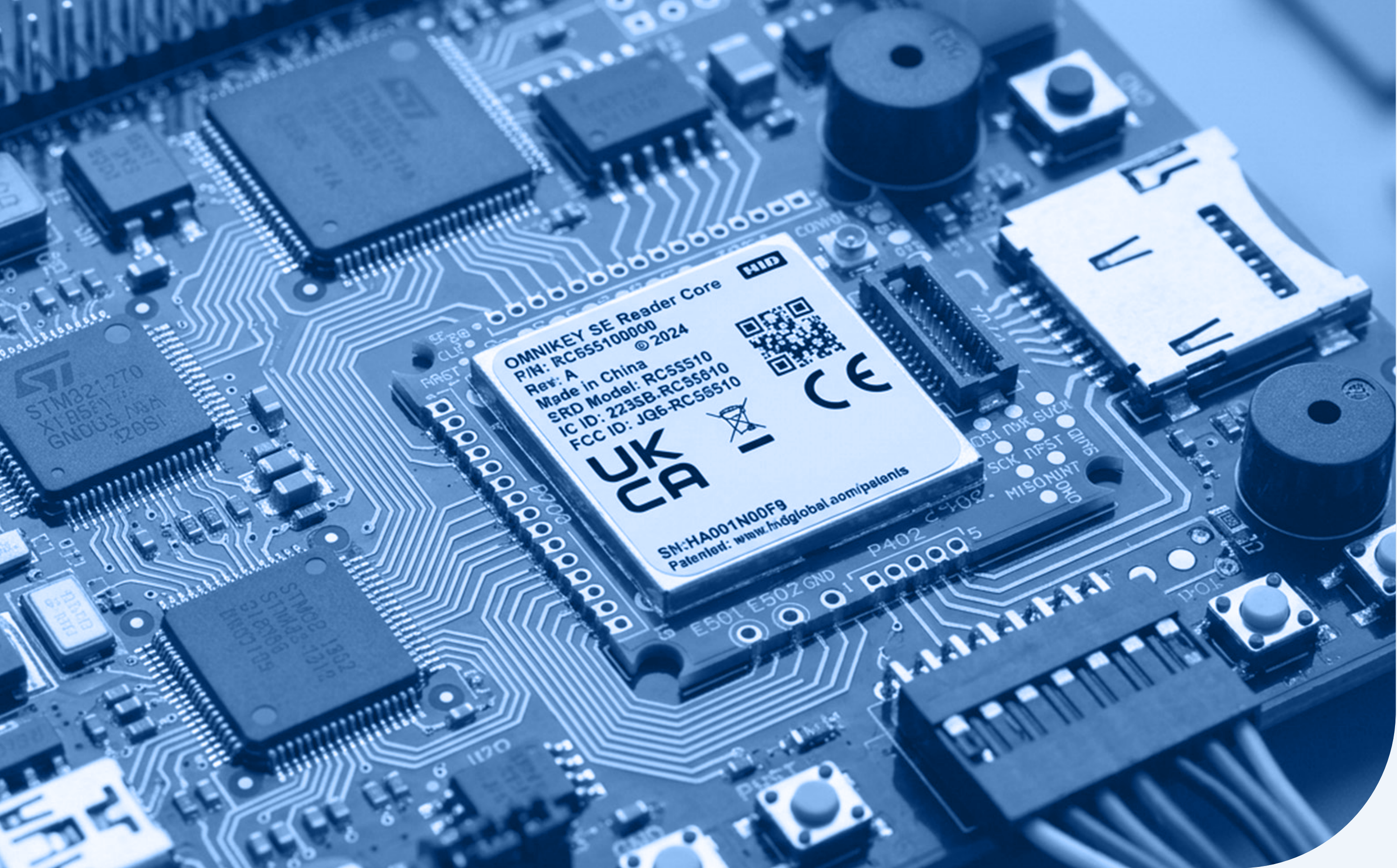




OMNIKEY® Embedded Modules Selection Guide

					
Product Name	OMNIKEY® SE Reader Core	OMNIKEY® Secure Element	OMNIKEY® 5127CK Reader Core	OMNIKEY® 5127CK Mini	OMNIKEY® 5122 Reader Board ¹
	PRODUCT DIFFERENTIATOR				
Product Feature	Small embeddable module available in 2 Form-Factors.	Chip or SIM form factors suited for OEMs	Compact reader core for devices with limited physical space	Embedded CCID and keyboard wedge RFID reader board	Dual interface smart card USB reader board
Antenna	External	✗	External	Integrated	Integrated
Secure Element Inside	✓	It is the Secure Element	✓	✓	✗
	SSO (SINGLE SIGN ON) APPLICATIONS				
Authentication to Desktop Computer, Thin or Zero Client applications	✓	✓	✓	✓	✓
PC authentication with mobile phone ²	✓	✓	✓	✓	✓
	INTERFACE CAPABILITIES				
USB 2.0	✓ ³	✗	✓	✓	✓
CCID	✓	✗	✓	✓	✓
UART	✓	✗	✓	✓	✗
Keyboard Wedge	✓	✗	✓	✓	✗
PC / SC	✓	✗	✓	✓	✓
	CREDENTIAL SUPPORT				
125 kHz Prox (LF)	✓	✓ ³	✓	✓	✗
HID Prox / Indala Prox	✓	✓ ³	✓	✓	✗
13.56 MHz (HF)	✓	✓	✓	✓	✓
HID Mobile Access (BLE, NFC)	✓	✓	✓	✓	✗
HID iCLASS®	✓	✓	✓	✓	✓ ⁴
HID Seos®	✓	✓	✓	✓	✓
MIFARE® Classic / Ultralight / DESFire EV1, EV2, EV3 ⁵	✓	✓	✓	✓	✓
NFC Tags Reader / Writer mode ⁶	✓ ^{7,8}	✓ ^{7,8}	✓ ⁷	✓ ^{7,8}	✓ ^{7,8}
	STANDARDS & PROTOCOLS				
ISO 14443 A/B	✓	✓	✓	✓	✓
ISO 15693	✓	✓	✓	✓	✓
ISO 7816 Contact	✗	✗	✗	✗	✓
FIDO2	✓	✓ ³	✓	✓	✗
	SUPPORTED OPERATING SYSTEMS				
All Operating Systems (Windows, Linux, Mac, Android, ChromeOS) ⁹	✓	✓	✓	✓	✓
	COMPLIANCE, REGULATORY & CERTIFICATIONS ¹⁰				
CE/UKCA	✓ ¹¹	✗	✓ ¹¹	✓	✓
RoHS	✓	✓	✓	✓	✓
FCC	✓ ¹¹	✗	✓	✓	✗

¹ : For Contact Use-Case, refer to Contact Embedded Module Product Selector Guide

² : eg : MIFARE Emulation Mode;

³ : OEM / Integration / Host dependent

⁴ : iCLASS® Legacy Only

⁵ : MIFARE DESFire EV3 support in EV1 emulation mode only

⁶ : Software needed for NDEF format / not provided by HID

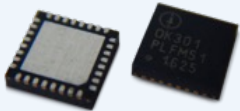
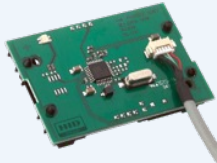
⁷ : Tags 1,2 and 4 only

⁸ : Tags 1-4; Felica UID only

⁹ : For specific supported OS versions, please check the datasheet on HID's website

¹⁰ : complete list of supported certifications can be provided upon request

¹¹ : Certification applies after OEM builds a finished product

			
Product Name	OMNIKEY® Smart@ Link Chipset	OMNIKEY® 3121 Reader Board	OMNIKEY® 5122 Reader Board *
	PRODUCT DIFFERENTIATOR		
Product Interface Type	Embedded chipset only (technology core)	Contact Only	Dual-Interface (Contact + Contactless)
Integration Level	Component for design-in	Ready-to-use module	Ready-to-use module
Primary Use Case	Integrate contact card reader functionality.	OEM / embedded contact smart card reader	OEM / embedded dual-interface reader
Chipset / Technology Core	OMNIKEY® Smart@ Link Chipset	OMNIKEY® Smart@ Link Chipset	OMNIKEY® Smart@ Link Chipset + Contactless RF Front-End
Target Users	Hardware OEM's	System Integrators	System Integrators
	INTERFACE CAPABILITIES		
ISO 7816	✓ ¹	✓	✓
Smart Card Support Voltage of 5V / 3V / 1.8V	✓	✓	✓
EMV L1 capability	✓ ¹	✓	✓
ISO 14443 A/B	✗	✗	✓
ISO 15693	✗	✗	✓
	COMPLIANCE, REGULATORY & CERTIFICATIONS		
USB CCID, CE / UKCA, RoHS / WEEE, UL	✓ ²	✓	✓
Manufacturer Warranty (in Years)	1	2	1

1 : Depends on Design & Implementation.
2 : The chipset itself is a component; regulatory markings apply to the finished reader boards
* : For Contactless Use-Case, refer to Contactless Embedded Module Product Selector Guide

HID Transponders

			
Product Name	HID® iCLASS SE® eUnit Tag	HID® eProx® Tag	HID® Seos® eUnit
	PRODUCT DIFFERENTIATOR		
Product Feature	13.56 MHz embedded transponder	Proximity access transponder	13.56 MHz embedded transponder
Credential Technology	iCLASS SE®	HID® Prox®	Seos®
Form Factor	Embedded Chip / Antenna	Adhesive-backed disk	Embedded Chip / Antenna
	INTERFACE CAPABILITIES		
13.56 MHz (HF)	✓	✗	✓
125 kHz Prox (LF)	✗	✓	✗
Read / Write Capability	✓	✗ ¹	✓
ISO 14443	✓	✗	✓
ISO 15693	✓	✗	✓
	CRYPTOGRAPHIC FEATURES		
SIO credential support	✓	✗	✓
Mutual Authentication	✓	✗	✓
AES Encryption	✓	✗	✓
Symmetric Key	✓	✗	✓



¹ : Fixed ID