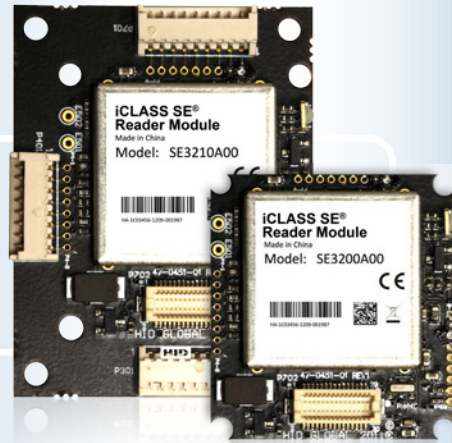


iCLASS SE® Reader Module



SECURE IDENTITY READER MODULE

- **Supports iCLASS SE Platform** – Provides multi-layer security that extends beyond the card technology for additional protection to identity data. Enables the use of NFC smartphones and other devices for mobile access utilizing iCLASS Seos™.
- **Field-Updatable Firmware** – Allows for feature enhancements in the field, extending the lifecycle of customer installations.
- **Fast to Integrate** – Interoperable with existing HID OEM modules and includes a Developer Tool Kit (DTK) that provides resources to facilitate fast and easy integration; extends access to HID Global's vast developer community.
- **Dual Frequency Support** – Allows straightforward migration by supporting low and high frequency credentials, including iCLASS Seos™, iCLASS SE®, standard iCLASS®, HID Prox, FeliCa™ MIFARE® Classic and MIFARE DESFire® EV1.

OTHER FEATURES:

- Field programmable, extending product lifecycle
- Hardware interfaces include Wiegand, Clock-and-Data, UART, or SPI
- Read secure data from iCLASS® and MIFARE credentials, as well as Sony FeliCa IDm and CEPAS CSN
- Host-driven commands enable read/write to secure areas of cards
- Flexible configuration fits a variety of applications
- EAL5+ certified secure element hardware for protection of keys and cryptographic operations to guard against security threats
- Ultra low power mode for battery-operated devices

The iCLASS SE Reader Module is part of HID Global's open iCLASS SE platform that enables customers to future-proof their access control infrastructures while simplifying how identities are created, used and managed across a range of applications using smart cards and microprocessor cards as well as NFC-enabled smartphones (utilizing iCLASS Seos).

The platform offers a secure, standards based technology-independent and flexible solution based on Secure Identity Object (SIO), a new portable and open credential methodology, and the Trusted Identity Platform® (TIP™).

Building on the success of the existing OEM modules, including OEM50/OEM75, the iCLASS SE Reader Module enhances existing functionality with new features that enable the use of NFC smartphones and other devices for access control while also providing increased levels of security.

HID Global's iCLASS SE Reader Module allows integrators to design third party solutions that support a full range of contactless card technologies, including iCLASS Seos, iCLASS SE,

standard iCLASS, MIFARE and HID Prox.

The iCLASS SE Reader Module's dual frequency capability allows the simultaneous use of both high frequency and low frequency credentials with the same reader, providing a solution for mixed credential and credential migration applications.

Another key feature of the iCLASS SE Reader Module is the straightforward field upgrade support that allows firmware changes and feature secures upgrades in installed readers to extend the lifecycle of customer installations.

For quick and easy integration, HID Global also provides an iCLASS SE Reader Module Developer Tool Kit (DTK). The DTK provides the necessary tools, documentation and developer resources material to shorten integration cycles and reduce time to market with finished products.

MORE SECURE, TRUST-BASED SECURITY

- Tamper Proof – EAL5+ certified Secure Element hardware provides tamper-proof protection of keys and cryptographic operations to guard against cloning and other breaches.
- Multi-layered security model with secure key management system, breach resistant technology and enhanced privacy protection.
- Operates under HID's open iCLASS SE platform, which creates a secure and trusted framework within which all cryptographic keys governing system security can be delivered with end-to-end privacy and integrity.

ENHANCED LIFECYCLE MANAGEMENT

- Field programmable and featuring open and configurable SIO's as well as a smart card technology migration path.

iCLASS SE READER MODULE DEVELOPER TOOLKIT (DTK)

- Provides a complete set of resources, allowing the immediate start of development.
- Includes a development board, allowing easy access to all iCLASS SE® Reader Module interfaces, iCLASS SE Reader Modules in different form factors and test cards to speed the development process.
- A secure, online developer portal provides access to development documents, tools and utilities to accelerate the time to market.

SUPPORTS NEXT-GENERATION SIO CREDENTIALS

- Enables a new class of portable identity credentials that can be securely provisioned and safely embedded into smart cards, microprocessor cards and NFC-enabled smartphones and other mobile devices using HID Global's iCLASS SE platform.



SPECIFICATIONS

Base Part Numbers	SE3200	SE3210
Dimensions	1.1" x 1.2" x 0.31" (28 x 30 x 8 mm)	1.3" x 1.7" x 0.31" (33 x 43 x 8 mm)
Weight	0.28 oz (8 g)	0.34 oz (9.7 g)
Power Requirements	Supply voltage 3.6 to 10 V for HF only Supply voltage 5 to 10 V for HF & Prox	
Power Consumption	<120 mA during card polling <10 uA in ultra low power mode	
Operating Temperature	-13 to 149°F (-25 to +65°C)	
Storage Temperature	-49 to 185°F (-45 to +85°C)	
	Contactless Smart Card Interface	
RF Transmit Frequency	13.56 MHz +/- 50 ppm	
Smart Card Technologies	ISO14443A/B ISO15693, FeliCa™ (IDm), CEPAS (CAN)	
Supported Credentials & IC's	MIFARE Classic®, MIFARE DESFire® 0.6, MIFARE DESFire® EV1, HID: iCLASS® Standard/SE/SR/Seos; PIV II, Secure Identity Object™ (SIO)	
Transmission Rate	Up to 848 kb/s (depending on IC & OS)	
Antenna Support	External antenna x 2 (1 x LF + 1 xHF)	
	Contactless Prox Card Interface	
RF Transmit Frequency	125 kHz +/-1 kHz	
Supported Credentials	HID Prox, EM4102, AWID Prox	
	General Features	
I/O	Green LED/Card Present, Red LED, Buzzer, Data Hold, Reset	
Firmware Upgrade	Local or remote upgrade of firmware providing firmware upgrade and feature enhancement capability	
Connectors	1 x 30 Pin – General Purpose (Serial I/F, I/O and PSU) Solder pads also available	1 x 8 Pin – Serial I/F 1 x 9 – Pin I/O and PSU 1 x 4 Pin – Antenna 1 x 30 Pin – General Purpose (Serial I/F, I/O and PSU)
Hardware Interface	Wiegand, Clock-and-Data, UART	
Global Certifications	UL Recognition (Recognized Component) to UL294 for the USA and CSA C22.2 No. 205 for Canada. CE, FCC 47 Part 15 modular approval, RoHS, WEEE	



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