HID®

iCLASS® Seos® / iCLASS® Card

iCLASS® Seos®/iCLASS®/Prox
Triple Technology Smart Card
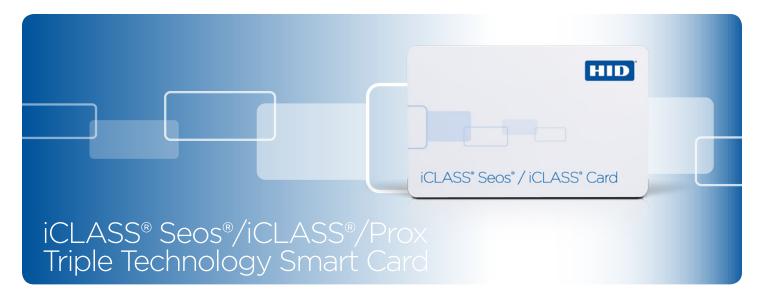

MULTI-TECHNOLOGY CARD FOR UPGRADING TO HIGHER SECURITY AND FUNCTIONALITY

- **Versatile** – Supports Prox, iCLASS® and advanced credential technology powered by Seos®, allowing seamless migration to a higher standard of security and functionality.

- **Robust** – In addition to supporting physical access, this single card solution powered by Seos also supports secure, private network access via one-time password (OTP).

- **Convenient** – Save time and resources by managing a one card credential solution instead of three separate cards.

HID Global's iCLASS® Seos®/ iCLASS®/Prox Triple-technology smart card is the perfect solution for environments where multiple legacy reader technologies are in place and the move to advanced, more secure technology is desired.

This versatile smart card, interoperable with all iCLASS, iCLASS SE® and Prox readers, facilitates the move to more secure access control. Conveniently replace readers gradually as time and budget allow. The benefits of enhanced security, privacy and functionality powered by Seos® can be fully realized as you transition to the new standard.

Features enabled through Seos technology include the ability to use mobile devices for secure access and efficiently managing multiple applications.

Convenience beyond the door

In addition to physical access applications, the robust multi-technology card supports secure, private access to IT resources (networks, computer login, cloud applications, and more) via a one-time-password (OTP).

Triple Technology Card

Base Part Numbers	**52060** Seos 8K + iCLASS 2k bit (2k2) + Prox **52063** Seos 8K + iCLASS 32k bit (16k2/16k1) + Prox **52064** Seos 8K + iCLASS 32k bit (16k16/16k1) + Prox
Further options	Available factory programmed, or prepared for field encoding - see HID How to Order Guide for details
Order through	Local HID Sales support / HID How To Order Guide

	FUNCTIONAL		
	Seos*	**iCLASS***	**Prox**
Operating Frequency	13.56 MHz	13.56 MHz	125kHz
Communication Protocol Compliance	ISO14443A	ISO15693	ISO 11784 / 11785
Communication Speed	Up to 848kbps	26kbps	4kbps
Memory Type	EEPROM	EEPROM	EEPROM
Memory size	8 KBytes	2k bit / 32k bit	512 bits
Multiple Applications On-card Support	Yes, multiple logical records & data groups	2k bit (256 Bytes) - 1 application area 32k bit (4K Bytes) - 2 or 16 application areas plus 16k bits user configurable	No
HID Global SIO Data Object Support	Yes, default	Yes, optional	No
HID iCLASS Legacy Data Formats Support	N/A	Yes, optional	N/A
HID Prox and Indala* Format Support	N/A	N/A	Yes
Write Endurance/Data Retention	Min 500,000 cycles / 20 years	Min 100,000 cycles / 10 years	N/A (Read only) /10 years
Typical Transaction Time	Data size dependant	<100ms	<100ms
Extended Privacy Support	Yes	No	No
Static UID	Yes, optional[1]	N/A	N/A

	TYPICAL RANGE READ[2]					
Reader Environment	*Standard[3]*	*On-Metal[4]*	*Standard[3]*	*On-Metal[4]*	*Standard[3]*	*On-Metal[4]*
SE R10/R15 (including BLE)	1.4-2.2″ (3.5-5.5cm)	0.8-1.4″ (2-3.5cm)	1.4-1.8″ (3.5-4.5cm)	1-1.4″ (2.5-3.5cm)	N/A	N/A
SE R40/RK40 (including BLE)	1-2.2″ (2.5-5.5cm)	Use a 1″ Spacer[5]	1-1.8″ (2.5-4.5cm)	Use a 1″ Spacer[5]	N/A	N/A
SE RP10/RP15 (including BLE)	0.4-1″ (1-2.5cm)	Use a 0.5″ Spacer[6]	0.4-1″ (1-2.5cm)	Use a 0.5″ Spacer[6]	1.4-1.8″ (3.5-4.5cm)	0.8-1.4″ (2-3.5cm)
SE RP40/RPK40 (including BLE)	0.8-1″ (2-2.5cm)	Use a 1″ Spacer[5]	0.6-1″ (1.5-2.5cm)	Use a 1″ Spacer[5]	1.2-1.4″ (3-3.5cm)	0.6-1.2″ (1.5-3cm)

	PHYSICAL
Dimensions	2.12″ x 3.35″ x 0.315″ (54 mm x 85mm x 0.8mm)
Card Construction	Composite with 60% PVC / 40% PET, laminated card
Weight	About 5.5 g

	THERMAL RESISTANCE, OPERATING AND STORAGE CONDITIONS
Operating temperature	-40°F to + 158 °F (-40 °C to + 70 °C)
Storage temperature	-31°F to + 122°F (- 35 °C to + 50 °C) for 1000h
Thermal shock	-31°F to + 176°F (- 35 °C to + 80 °C), 50 cycles of 5 minutes, 30s transition time

	CHEMICAL RESISTANCE AT ROOM TEMPERATURE (APPROX. 25°C), AS SPECIFIED IN ISO/IEC 10373
	The card can withstand exposure salt water (5%) salt mist, acetic acid water (5%), carbonated sodium water (5%), sugared water (10%), fuel B and ethylene glycol (50%) for at least 24 hours

	PRINTING OPTIONS
Card marking	©HID iCLASS Seos® iCLASS® Px XT
Printable	*Yes (glossy white front /glossy white back) - for best results use an HDP printer, direct to card not recommended Contact your HID sales representative or find more information about FARGO® printers on the HID Global website.*
Slot punch	Not available
Magnetic stripe	Optional
Custom graphics	Optional

	INTEROPERABILITY & WARRANTY
Standards compliance	ISO/IEC7810, ISO14443, ISO10373, ISO60529, ISO7816, ISO11784 ISO11785
Operates with	HID Prox, iCLASS SE® and iCLASS readers
Warranty	Lifetime Warranty

[1] *Provides ISO14443A 7 byte UID interoperability. Note that this configuration compromises privacy features.*
[2] *Triple technology card performance is lower than single or dual technology cards. Ensure a suitable reader is selected to match the installation environment to achieve desired performance. Actual results may vary based on environment. A spacer may be required.*
[3] *Results reflect mounting on a dry wall or other non-metallic surface and with no metal in vicinity of the reader*
[4] *Results reflect mounting directly to a metal surface, a metal back box or dry wall with metal in close proximity to the rear of the reader*
[5] *1″   R40/RP40   spacer part number = 6132AKE   1″ RK40/RPK40   spacer part number = 6132AK*
[6] *0.5″ RP10   spacer part number = 6132AKB   0.5 ″ RP15   spacer part number = 6132AKC*

2016-12-27-hid-seos-iclass-prox-ds-en   PLT-02563

An ASSA ABLOY Group brand

ASSA ABLOY