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 Number 2kbit	52060		
Further options	P – programmed N – non-programmed		
Ordering through	Local HID Sales support / HID How To Order Guide		
FUNCTIONAL			
	Seos® 5006	**iCLASS®2K**	**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	2 kbits	512 bits
Multiple Applications On-card Support	Yes, multiple logical records & data groups	2 application areas	No
HID Global SIO Data Object Support	Yes, default	Yes, default	No
HID iCLASS Legacy Data Formats Support	N/A	Yes, optional	N/A
Write Endurance	Min 500,000 cycles	Min 100,000 cycles	N/A (Read only)
Data Retention	20 years	10 years	10 years
Typical Transaction Time	Data size dependant	<100ms	<100ms
Typical Reading Distance	2-7 cm*	5-12 cm*	5-60 cm*
Extended Privacy Support	Yes	No	No
Static UID	No	Yes	N/A
Secure Messaging	EN 14890-1 and 7816 aligned	No	No
PHYSICAL			
Dimensions***	54 mm x 85,6mm		
Thickness***	0.8 mm		
Card Construction	Composite with 60% PVC / 40% PET , laminated card		
Weight	About 5,5 g		
THERMAL RESISTANCE, OPERATING AND STORAGE CONDITIONS			
Operating temperature	- 40 °C to + 70 °C		
Storage temperature	- 35 °C to + 50 °C for 1000h		
Thermal shock	- 35 °C to + 80 °C, 50 cycles of 5 minutes, 30s transition time		
Humidity resistance	95 % at + 50 °C for 1h		
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 JJAH XT		
Printable	Yes (glossy white front /glossy white back) *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		

*   *Depending on the reader used*
**   *The protocol enables the data rate of fRF/32, (bi-phase) where fRF is the frequency of the LF radio field.*
     Note that it is allowed to have variations in the frequency in the range between 100-150 kHz.
*** *Small tolerances apply, typically in the range of ±0,05 to ± 0,15 mm*

GENUINE
HID™
SECURE IDENTITY

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