

iCLASS® Credential Specifications




iCLASS Meets Industry Standards

The development team at the Identification Technology Group of ASSA ABLOY has utilized advanced semiconductor technology based on the 13.56 MHz frequency to meet numerous ISO standards. iCLASS readers can read data from cards compliant with the following standards:

- ISO 15693 - read/write; 2k bits (256 Bytes), 16k bits (2k Bytes), and 32k bits (4k Bytes)
- ISO 14443, Type A - read only; MIFARE® (serial number)*
- ISO 14443, Type B2 - read/write; 2k bits (256 Bytes), 16k bits (2k Bytes), and 32k bits (4k Bytes)

Meeting the standards above is important in smart card technology because they enable many equipment and application developers to work with this technology to create a broader range of uses for the card.

*The R90 is an ISO 15693 reader and will not read MIFARE cards

	 iCLASS® Clamshell	 iCLASS® Card	 iCLASS® Card Embeddable
Base Part Number	2080	200X/210X	201X/211X
Read Range: *			
R10/RW100	Up to 2.5" (6.5 cm)	Up to 3.25" (8.0 cm)	
R30/RW300	Up to 3.0" (7.5 cm)	Up to 4.0" (10.0 cm)	
R40/RW400	Up to 4.5" (10.0 cm)	Up to 4.25" (11.0 cm)	
RK40/RK400	Up to 4.0" (9.0 cm)	Up to 3.5" (9.0 cm)	
Memory Size/ Application Areas	2k bits with two areas	2k bits with two application areas; 16k bits with two application areas (16k/2); 16k bits with 16 application areas (16k/16); 32k bits (16k/2+16k/1); 32k bits (16k/16+16k/1)	
HID Proximity 125 kHz	No		
Contact Smart Chip Module Embeddable	No		Yes**
Wiegand Strip	No		
Magnetic Stripe	No	Optional	
Printable ***	Yes		
Standard HID Artwork	Optional		
Slot Punch	Vertical Included	Vertical Optional	
Visual Security Options	N/A	Yes	
Additional Security Options	Corp 1000, iCLASS Elite		
Warranty	Lifetime		

* Dependant upon installation conditions.

** Contact smart chip module not included. Ask about HID's SMARTS Program for off-the-shelf contact smart chip embedded cards.

*** Some types of printing processes can take these credentials out of ISO compliance for thickness. Consult factory for more information.