



ALL 2K BIT (256 BYTE) ICLASS CREDENTIALS HAVE THE FOLLOWING FEATURES:

- Available in two application area configuration only.
- Provides the HID standard access control application area and one other application area for user customization.
- Meet ISO 15693 standard for contactless communications.
- Provides a cost effective way to improve the security of your access control installation.

ALL 16K BIT (2K BYTE) AND 32K BIT (4K BYTE) ICLASS CREDENTIALS HAVE THE FOLLOWING FEATURES:

- Sufficient read/write memory to store multiple biometric templates.
- 16k Available in a two or sixteen application area configuration. 32k available with 16k memory configured in either 2 or 16 application areas, plus an additional 16k user configurable memory.
- Multiple securely separated files enable numerous applications, including the HID standard access control application, and support future growth.
- Meet ISO 15693 for contactless communications.

MULTI-TECHNOLOGY CONTACTLESS SMART CARDS FOR USE WITH CONTACT SMART CHIP MODULES COMPOSITE PVC/PET CARDS 2110, 2111, 2112, 2113, 2114

HID's iCLASS® 13.56 MHz Embeddable read/write contactless smart card technology can be used for diverse applications such as access control, biometrics, cashless vending, public transportation, airline ticketing and customer loyalty programs. Multiple, securely separated files enable numerous applications and support future growth.

The iCLASS Embeddable Card includes iCLASS 13.56 MHz contactless read/write smart card technology with the ability to add an embedded smart chip of your choice along with adding a magnetic stripe, barcode, and anti-counterfeiting features including custom artwork or a photo identification directly on the credential. Your iCLASS Embeddable Card can now be utilized for such diverse applications including access control, network log-on security, automotive vehicle identification, cashless vending, time and attendance, and biometric verification. You can now take full advantage of iCLASS access control capabilities with the myriad of smart chip software applications. The iCLASS Embeddable Card meets strict ISO thickness standards for use with direct image and thermal transfer printers.

Features:

- 13.56 MHz read/write contactless smart card technology provides high-speed, reliable communications with high data integrity.
- iCLASS technology ensures high security with mutual authentication, encrypted data transfer, and 64-bit diversified keys for read/write capabilities.
- Any existing HID format can be factory or field programmed into the secure HID access control application area.
- Available in 2k bit (256 Byte), 16k bit (2k Byte) or 32k bit (4k Byte) configurations
- Designed to be embedded with a contact smart chip module of your choice.
- A single multi-technology card can be used for multiple applications.
- Add a magnetic stripe, barcode, anti-counterfeiting, or photo ID.



READ/WRITE FUNCTIONALITY FOR MULTI-FUNCTIONAL MEMORY APPLICATIONS

iCLASS[®] was specifically designed to make access control more powerful, more versatile, and more secure. All radio frequency data transmission between the card and reader is encrypted using a secure algorithm. By using industry standard encryption techniques, iCLASS reduces the risk of compromised data or duplicated cards. For even higher security, the card data may also be protected with DES or triple DES encryption. Multiple securely separated application areas are each protected by 64-bit diversified read/write keys which allow complex applications and provide for future expansion.

Security mechanisms such as mutual authentication and encryption are efficiently combined with fast processing and data communication, resulting in transaction times of less than 100 milliseconds for a typical secure e-purse transaction.

PROVEN, RELIABLE TECHNOLOGY

Offers extremely consistent read range. Unaffected by body shielding or variable environmental conditions.

THIN

Can be carried with credit cards in a wallet or purse. Use with a strap and clip as a photo ID badge

PHOTO ID COMPATIBLE*

Print directly to the card with a direct image or thermal transfer printer. Slot punch vertically for easy use.

LONG LIFE

Passive, no-battery design allows for an estimated minimum 100,000 reads.

DURABILITY

Strong, flexible, and resistant to cracking and breaking.

SPECIFICATIONS

Base Part Numbers	2110 for 2k bit (256 Byte) card with 2 application areas 2111 for 16k bit (2k Byte) card with 2 application areas 2112 for 16k bit (2k Byte) card with 16 application areas 2113 for 32k bit (4k Byte) 16k/2+16k/1. 2114 for 32k bit (4k Byte) 16k/16 + 16k/1.
Description	13.56 MHz contactless smart card with optional contact smart chip module.
Typical Maximum Read Range*	R10 2-3" R30/RW300 2.0-3.5" R40/RW400 2.5-4.5" RK40/RWK400 1.0" - 3.0-4.0" *Dependent upon installation conditions.
Dimensions	2.127" x 3.375" x 0.033" max. (5.40 x 8.57 x 0.084 cm)
Weight	0.20 oz. (5.7g)
Card Construction	Durable composite PVC/PET, optimized for HID HDP 5000 printer
Operating Temperature	-40° to 158° F (-40° to 70° C)
Operating Humidity	5-95% non-condensing
Operating Frequency	13.56 MHz
RF Interface	As suggested by ISO/IEC: 15693 read/write
Transaction Time	<100 ms typical
Baud Rate	15693 read/write - 26 kbps
Memory Type	EEPROM, read/write
Multi-application Memory	2k bit (256 Byte) card - 2 application areas 16k bit (2k Byte) card - 2 or 16 application areas 32k bit (4k Byte) card - 16k bits in 2 or 16 application areas plus 16k bits user configurable.
Write Endurance	Min. 100,000 cycles
Data Retention	10 years
Options	Magnetic stripe / External card numbering (inkjet or laser engraving) / Vertical slot punch / Custom artwork (text or graphics). Note: custom graphics may increase overall card thickness. / Contact Smart Chip Module. The Embeddable iCLASS card can be purchased: Ready to be embedded with the contact smart chip module of your choice. With the contact smart chip module already embedded. Note: optional contact smart chip module memory requirement is dependent on operating system and application chosen. Contact your HID representative for information about the modules that match your application. (Please see "How To Order Guide" for a description of the options and associated part numbers.)
Warranty	Lifetime warranty. See complete warranty policy for details.



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