

Access Card: iClass® Prox Card

Combination Contactless 13.56MHz Smart Card and 125kHz Proximity Card (optional magnetic stripe)



HID's iCLASS® 13.56 MHz 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 Prox Card combines iCLASS 13.56 MHz contactless read/write smart card and Prox 125kHz proximity technology on a single card with the ability to add magnetic stripe, barcode, and anticounterfeiting features including custom artwork or a photo identification directly on the credential. Your iCLASS Prox 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. As you integrate and/or migrate to an iCLASS platform from proximity technology readers. And, you have the option of assigning various security levels to the cards depending on the credential holder. The iCLASS Prox Card meets strict ISO thickness standards for use with direct image and thermal transfer printers.

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.



Features

- 13.56 MHz read/write contactless smart card and 125 kHz 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.
- Meets ISO standards for thickness for use with all direct image and thermal transfer printers
- Add a magnetic stripe, barcode, anti-counterfeiting, or photo ID.



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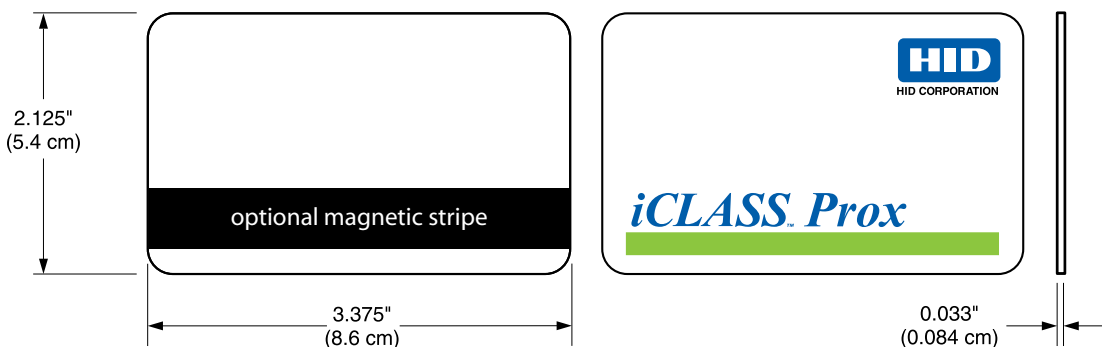
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Specifications

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|------------------------------------|--|
| Typical Maximum* Read Range | R10 2.0-3.0" (5.0-7.6cm) R30/RW300 2.0-3.5" (5.0-8.9cm) R40/RW400 2.5-4.5" (6.3-11.4cm) RK40/RWK400 3.0-4.0" (7.6-10.1 cm) *Dependent upon installation conditions. |
| Dimensions (WxHxDcm) | 5.40 x 8.57 x 0.084 cm (2.127" x 3.375" x 0.033") |
| Card Construction | Thin, flexible polyvinyl chloride (PVC) laminate |
| Operating Temperature | -40° to 70° C (-40° to 158° F) |
| Operating Humidity | 5-95% non-condensing |
| Operating Frequency | 13.56 MHz; 125 kHz |
| RF Interface | As suggested by ISO/IEC: 14443B read/write (16k only) 15693 read/write |
| Weight | 6.8 grams (0.24oz) |
| Quick Description | 13.56 MHz contactless smart card with antenna 125 kHz HID Proximity card |
| Transaction Time | <100 ms typical |
| Baud Rate | 14443 B mode - 106 kbps; 15693 mode - 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 | <ul style="list-style-type: none"> • External card numbering (inkjet or laser engraving) • Vertical slot punch • Custom artwork (text or graphics) • Magnetic stripe |



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