

# Access Card: iClass® Wiegand Card

## Combination Contactless 13.56MHz Smart Card and Wiegand Swipe 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 Wiegand Card integrates iCLASS 13.56 MHz contactless read/write smart card with Wiegand technology on a single card with the ability to add a magnetic stripe, barcode, and anti-counterfeiting features including custom artwork or a photo identification directly on the credential. You now have the ability to offer a one-card solution that combines existing Wiegand and newly integrated iCLASS technology as you transition from Wiegand to HID iCLASS technology readers for such diverse applications including access control, network log-on security, automotive vehicle identification, cashless vending, time and attendance, and biometric verification.. The iCLASS Wiegand Card is suitable for use with all Wiegand readers and most direct image printers and magnetic stripe readers that feature a nominal thickness of .037" or 0.94mm.

iCLASS® was specifically designed to make access control more powerful, more versatile, and more secure. All radio frequency data transmission between the tag and reader is encrypted using a secure algorithm. By using industry standard encryption techniques, iCLASS reduces the risk of compromised data or duplicated tag. For even higher security, the tag 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 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.



tel 1300 886 380 ■ fax 1300 301 749

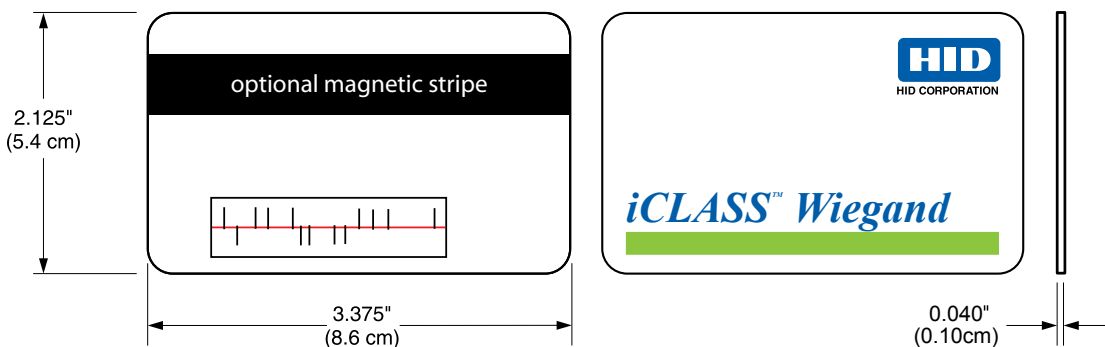
email [sales@idwtechnologies.com.au](mailto:sales@idwtechnologies.com.au) ■ website [www.idwtechnologies.com.au](http://www.idwtechnologies.com.au)

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## Specifications

<b>Typical Maximum* Read Range</b>	R10 2.0" - 3.0" (5.0cm - 7.6cm) R30/RW300 2.0" - 3.00" (5.0cm - 7.6cm) R40/RW400 2.5" - 4.5" (6.3cm - 11.4cm) RK40/RK400 1.5" - 2.5" (3.8cm - 6.3cm) *Dependent upon installation conditions.
<b>Dimensions (WxHxDcm)</b>	5.40 x 8.60 x 0.10 cm (2.125" x 3.375" x 0.040")
<b>Card Construction</b>	Polyvinyl chloride (PVC) laminate
<b>Operating Temperature</b>	-40° to 70° C (-40° to 158° F)
<b>Operating Humidity</b>	10-95% non-condensing
<b>Operating Frequency</b>	13.56 MHz
<b>Weight</b>	6.3 grams (0.22oz)
<b>Quick Description</b>	13.56 MHz contactless smart card and Wiegand technology
<b>Transaction Time</b>	<100 ms typical
<b>Baud Rate</b>	14443 B mode - 106 kbps; 15693 mode - 26 kbps
<b>Memory Type</b>	EEPROM, read/write
<b>Multi-application Memory</b>	2k bit (256 Byte) card – 2 application areas 16k bit (2k Byte) card – 16 application areas 32k bit (4k Byte) card – 16k bits in 2 or 16 application areas plus 16k bits user configurable.
<b>Write Endurance</b>	Min. 100,000 cycles
<b>Data Retention</b>	10 years
<b>Options</b>	<ul style="list-style-type: none"> <li>• External card numbering (inkjet or laser engraving)</li> <li>• Vertical slot punch</li> <li>• Custom artwork (text or graphics)</li> <li>• Magentic stripe</li> </ul>



tel 1300 886 380 ■ fax 1300 301 749

email sales@idwtechnologies.com.au ■ website www.idwtechnologies.com.au

