





# COMBINED LOGICAL AND PHYSICAL ACCESS CONTROL ON CONTACT/CONTACTLESS MULTI-TECHNOLOGY SMART CARD

- Out-of-the-box, Standards-Compliant Contact Smart Chip Supports hundreds of logical access applications from Microsoft® and others
- Convenient and Cost Effective Available with the wide range of contactless technologies offered by HID Global for simplified card management
- Pre-initialized with the Required On-card Applet Includes all required drivers and middleware
- Simplified Deployment and Card Lifecycle Management naviGO™ software's self service functions reduce costs and simplify deployment and card lifecycle management

Crescendo® is a credit card-sized multitechnology smart card that enables logical and physical access control, providing outof-the-box, standards-compliant support for hundreds of logical access applications, and also serving as an employee ID badge.

Crescendo cards contain powerful contact smart chips with cryptographic co-processors, based on the Java Card operating system, capable of performing advanced operations. To meet the needs of current physical access control customers, Crescendo can be customized with the contactless physical access control technologies you choose. By combining these two common functions on one card, Crescendo offers the lowest total cost of ownership (TCO) for a combined logical and physical access control solution.

An off-the-shelf solution, Crescendo allows a much faster turn time and lower minimum order quantity compared to many other contact smart card solutions. Also, because the cards are fully produced within HID Global, the ordering process is greatly simplified, eliminating the risk associated with working with multiple suppliers.

As part of the HID on the Desktop™ solution,
Crescendo contact smart cards represent
the highest level of network security,
working with highly developed Public Key
Infrastructures (PKI). The features of the
standard Crescendo product are extended
using naviGO Server software to provide a
simple management solution for card PIN and
PUK as well as emergency access functionality.



C700

### **CONTACTLESS TECHNOLOGIES SUPPORTED:**

- HID iCLASS®
- MIFARE™ Classic
- MIFARE DESFire™ EV1
- HID & Indala Prox
- Magnetic Stripe<sup>1</sup>
- Options and multi-technology combinations available on request

#### **MICROSOFT APPLICATIONS:**

- Windows® Domain Log-On
- Remote Desktop/RDP<sup>2</sup>
- Microsoft Forefront Identity Manager 2010
- Outlook
- **Encrypted File System**
- Internet Explorer
- Windows Certificate Authority

#### OTHER APPLICATIONS<sup>3</sup>:

- Single Sign-On
- Pre-Boot Authentication
- Firefox®, Netscape®
- VPN (SSL/IPSEC)
- Citrix®

C2004

Smart Card Management Utility



## **SPECIFICATIONS**

	C200 ·	C/00
	OS SUPPORT	
Windows Vista™ / Windows 7 / Windows 8	Yes (32 & 64 bit)	Yes (32 & 64 bit)
Windows* 2000 / Windows*XP	Yes	Yes
Windows Server 2003 & 2008	Yes (32 & 64 bit)	Yes (32 & 64 bit)
Windows CE / Mobile	No	Yes
Mac* OS X, Linux*, Solaris, Unix	No	Yes
	STANDARDS SUPPORT	
ISO 7816 1-4	Yes	Yes
PCSC / CCID	Yes	Yes
CryptoAPI / MSCAPI	Yes	Yes
PKCS11	No	Yes
Base CSP	Yes	No
X.509 Certificates	Yes	Yes
	CONTACT SMART CHIP	
Java Card OS v2.2.2	Yes	Yes
Global Platform Specification 2.1.1	Yes	Yes
Crypto Co-Processor	Yes	Yes
Number of 1024 Bit Digital Certificates <sup>5</sup>	16	21
Number of 2048 Bit Digital Certificates <sup>5</sup>	12	15
EEPROM Storage	64K	64K
EEPROM Data Retention	20 Years	20 Years

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The Magnetic stripe is ABA standard 3 track, high coercivity (4000 Oe), ISO 7811-6 compliant.
Requires Windows 8, Windows 7, Windows Vista, or Windows XP
Please review the "Crescendo Third Party Product Compatibility" document for a complete listing of applications and uses
The Crescendo C200 credential solution has completed the Microsoft certification program for smart card minidrivers

based on the v5 specifications
5 Maximum number of certificates