Crescendo® Cards

Smart Cards with Support for Logical and Physical Access

Crescendo Cards can be used as a corporate badge that protects both physical access to facilities and passwordless access to digital enterprise resources.

Designed to be easy and fast to deploy, the Crescendo Card Series offers smart cards that are FIDO2 certified and support proven standards such as PIV and PKI, enabling organizations to adopt a Zero Trust security approach that evolves with security standards, technologies and industry regulations.

With the ability to embed physical access technologies like Seos, iCLASS SR®, MIFARE® DESFire®, MIFARE Classic and Prox, Crescendo Cards can be used as a physical access badge.

With Crescendo Cards, data privacy is front and center by adhering to regulations around trusted access to sensitive information such as GDPR, HIPAA, PCI-DSS, LBA, SOX, NERC-CIP and more.

The Crescendo family also includes security keys (NFC, USB-A, USB-C) for strong multi-factor and passwordless authentication with support for FIDO, PKI and OATH.

KEY BENEFITS:

- **The Crescendo Framework —** Issue and manage the credential lifecycle from a single platform. One PIN can be used across multiple access technologies
- **Dual Interface Corporate Badge –** Use a single smart card as a photo ID for network, cloud authentication and physical access
- **High Assurance –** Align with the recommendations of NIST SP 800-63 Digital Identity Guidelines, using devices that allow you to reach authentication assurance level

MULTI-PROTOCOL:

- **FIDO –** Securely accesses online and cloud services such as Microsoft Entra ID, G Suite or Dropbox Business without preinstalled software
- **PKI –** Utilizes defense grade authentication
- **OATH –** Leverages open universal authentication standard for One Time Password (OTP)

ADDITIONAL PRODUCT FEATURES:

- Made of durable composite PET/PVC plastic that enables high-quality printing with recommended HID Secure Issuance card printers
- Available as white cards or with customer specific artwork with advanced security features to prevent visual counterfeiting
- Uses a FIPS 140-2 certified cryptographic module in a separate and EAL 5+ tamper-resistant device with limited attack surface

CRESCENDO CONFIGURATIONS:

- Standard profile, ready to use with predefined configuration supporting FIDO and PIV, ready for HID's credential management solution
- Securely managed profile, for issuance with HID's on-prem credential management solution, Credential Management System, with different configurations available depending on specific customer needs

	Crescendo 3000	Crescendo 2300		Crescendo 144K
Base Part	**403270B**	**4023XXXXXX** (XX is variable based on configuration)	**40222XXXXX** (XX is variable based on configuration)	**400XXX-D14** (XX is variable based on configuration)
Logical Access	Contactless	Contact & Contactless	Contactless	Contact
Physical Access	HID SEOS 8K MIFARE DESFire EV2	HID SEOS 8K MIFARE Classic MIFARE DESFire EV1 PROX	HID SEOS 8K iCLASS 32K PROX	HID SEOS 8K MIFARE Classic MIFARE DESFire EV3 iCLASS 32K PROX
Security Services	FIDO 2.0	PKI, FIDO 2.0, OATH		PKI
Platform	Java Card 3.0.5 Global Platform 2.3	Java Card 3.0.5 Global Platform 2.2		Java Card 3.0.4 Global Platform 2.2
	NXP JCOP 4.0	NXP JCOP 3.0		G&D SM@RTCAFÉ EXPERT 7.0
Cryptographic Algorithms	AES-256, Triple DES, Up to RSA 4096 bits and ECC 640 bits key length	AES-128, Triple DES, RSA1024 and 2048, ECC p256/p384		AES-128, Triple DES, RSA1024 and 2048, ECC
	ISO 14443 Type A	ISO 7816-3 ISO 14443 Type A	ISO 14443 Type A	ISO 7816-3 ISO 14443 Type A
Communication Speed	Contactless up to 848 Kbps	Contact up to 115, 200 bps Contactless up to 848 Kbps	Contactless up to 848 Kbps	Contact up to 115,200 bps Contactless up to 848 Kbps
EEPROM Size	180 Kbytes	132 Kbytes (TBC)		144 Kbytes
EEPROM Endurance		500,000 cycles		500,000 cycles
EEPROM Data Endurance	25 years	20 years		20 years
Dimension	2.127" x 3.375" x 0.033" max (54 x 85.7 x 0.84 mm)			
Storage Temperature	-31°F to +176°F (-35°C to +50°C)			
Security Measures	• Security against known and most recent template attacks • Configurable memory encryption • Physical Unclonable Function (PUF) • Spatial decorrelation of logic functions • Certified isolation of NXP and customer code	• Module protected against SPA, DPA, Timing • Analysis and Fault Induction. • Protection features include detection of out-of-range supply voltage, frequencies and temperatures, and detection of illegal address or instruction.		• Clock frequency, temperature, supply cvoltage and light sensors • Single Fault Injection (SFI) attack detection • Differential Power Analysis DPA protection • Timing and fault attacks prevention (DFA)
Card Contruction	Composite construction (40% PVC, 60% PET)			
Printer Compatibility	Direct to Card DTC or High Definition HDP reverse printing			
Security Evaluation and Certification	Common Criteria EAL 6+ FIDO 2 Level 1	Common Criteria EAL 5+		Common Criteria EAL 5+ NIST FIPS 140-2 Level 2
		NIST FIPS 140-2 Level 2 FIDO 2 Level 1	FIDO 2 Level 1	
Warranty	Lifetime warranty. See complete warranty policy for details https://www.hidglobal.com/warranty-policy	2 Years		

hidglobal.com

North America: +1 512 776 9000 | Toll Free: 1 800 237 7769
Europe, Middle East, Africa: +353 91 506 900
Asia Pacific: +852 3160 9800 | Latin America: +52 55 9171 1108
For more global phone numbers click here

© 2025 HID Global Corporation/ASSA ABLOY AB. All rights reserved.

2025-08-15-iams-crescendo-card-family-ds-en PLT-04474
Part of ASSA ABLOY