PHYSICAL ACCESS SOLUTIONS

CP1000
iCLASS SE® Encoder

ADDITIONAL FEATURES:

- Program standard security or Elite credentials
- Multiple formats support
- Simply program Genuine HID® or third-party credentials by downloading appropriate Encoder Credits
- Available as a finished desktop device or an embedded reader board for developers to integrate into existing systems
- Developer Tool Kit (DTK) provides the necessary resources to allow integration of the iCLASS SE Encoder into third-party applications

ENCODER PLATFORM FOR PROGRAMMING CONTACTLESS CREDENTIALS

- **Supports iCLASS SE Open Platform** – Provides the encoding platform for numerous credential technologies for use on a wide range of readers.

- **Encode Physical Access Credentials** – Support for a wide range of credential technologies, including iCLASS Seos™, iCLASS SE®, iCLASS®, MIFARE Classic and MIFARE DESFire® EV1 with a single device.

- **Flexible Key Management** – Manage keys locally or use HID Secure Identity Services™.

- **Field Upgradeable** – Download software applets to provide additional card technology support.

- **Seamless Migration** – Migrate from one technology to another without the need to manually input data.

HID Global's iCLASS SE® Encoder is an ideal solution for organizations to encode and manage credentials as well as configure readers. The encoder provides ultimate versatility in key management with the option of allowing HID Global to manage key directly or an organization can securely define and manage keys locally.

Combining the functionality of a number of existing HID Global encoders, the iCLASS SE Encoder also has the capability to encode credentials to operate with iCLASS SE Readers (that support iCLASS Seos, iCLASS SE, iCLASS, MIFARE DESFire EV1 and other technologies).

The solution enables organizations to easily migrate from one card technology to another by simply extracting the existing access control data and writing it to either a new credential or "wrapping" the data in a Secure Identity Object™ (SIO®) and writing it to the existing credential.

This also allows users to encode Genuine HID® or third-party credentials in order to upgrade existing card populations for use with higher security iCLASS SE Platform readers. For seamless migration from low-frequency credentials, the encoder also supports HID Prox (read only).

A combination of software applets and encoder credits (available via a simple download) provide

maximum technology flexibility, assurance, and a future-proof solution that to supports new credential technologies when required.

The iCLASS SE Encoder simplifies the often complex task of encoding smart card credentials by providing a managed data structure for defining card numbering schemes, thereby removing the need to understand the details of configuring both sector and file data.

The encoder also provides a powerful tool to manage keys and HID Global reader behavior. By simply encoding a configuration card, keys can be transferred securely to a reader or group of readers. The reader LED, Buzzer and RF characteristics can also be controlled by the use of configuration cards created by the iCLASS Encoder.

The solution is available as a desktop device or as an embedded reader board for developers to integrate into existing hardware and software encoding solutions such as card printers.

For quick and easy integration HID Global also provides an iCLASS SE Encoder Developer Tool Kit (DTK). The DTK provides all necessary tools, documentation and developer resources material to shorten integration cycles and reduce time to market with finished products.

MORE SECURE, TRUST-BASED SECURITY

- EAL5+ certified hardware provides tamper-proof protection of keys and cryptographic operations to guard against cloning and other breaches.

- Multi-layered security model with secure key management system, breach resistant technology and enhanced privacy protection.

- Operates within HID Global's Trusted Identity Platform® (TIP™) framework, which creates a secure boundary within which all cryptographic keys governing system security can be delivered with end-to-end privacy and integrity.

- Field programmable and upgradeable featuring open and configurable SIOs® as well as a smart card technology migration path.

ENCODER CREDENTIAL TECHNOLOGY SUPPORT

	Standard	iCLASS Elite	Custom Keys
iCLASS®	■	■	■
iCLASS SE®	■	■	■
iCLASS SR	■	■	■
iCLASS Seos™	■	■	■
HID MIFARE® Classic	■	■	■
SIO Solution for MIFARE Classic	■	■	■
MIFARE DESFire® EV1	■	■	■
SIO Solution for MIFARE DESFire	■	■	■
HID Prox®	Coming Soon		

SPECIFICATIONS

Model Number	CP1000 (iCLASS SE Desktop Encoder)
Encoder Hardware	
Dimensions	2.79″ x 3.66″ x 0.63″ (71 mm x 93 mm x 16 mm)
Weight	Approx. 3.53 oz (100 g)
Power Supply	Bus Powered
Operating	32°- 158° F (0° - 70° C)
Status Indicators	Dual color LED and Buzzer
Connector / Cable Length	USB Type A Connector / 78.7″ (200 cm)
Host Interface	
Host Interface	USB 2.0 (also compliant with USB 1.1)
Contactless Smart Card Interface	
Smart Card Technologies	ISO14443A/B ISO15693
Supported Credentials	HID: iCLASS® Standard/SE/SR; iCLASS Seos, MIFARE Classic®, MIFARE Plus®, MIFARE DESFire®, MIFARE DESFire® EV1, HID Prox® (coming soon)
Supported API's	PC/SC (ready for 2.01/ CCID mode)
PC / SC Driver Support	Compliant with native OS CCID drivers (in CCID mode). HID proprietary PC/SC drivers available for: Windows® XP / Vista / 7 (32 bit / 64 bit), 2003 Server, 2008 R2 Server, Linux® (32 / 64 bit, incl. Debian 6.0, Fedora 15, OpenSUSE 11.4 , Ubuntu 11.04) & Mac® OS X (10.5 Leopard and higher, Intel 32 / 64 bit)
Global Certifications	UL Recognition (Recognized Component) to UL294 for the USA and CSA C22.2 No. 205 for Canada. CE, FCC 47 Part 15 modular approval, RoHS, WEEE,
Warranty	Two-year manufacturer's warranty. (For drivers and software, see complete lifetime support policy)

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