



A Resource for Students . . .

An Aid for Educators

The twenty-first century will witness revolutionary developments in information technology. And with our society's enormous capability to amass and communicate information will come an imperative need to positively identify individuals and safeguard privacy. The e-pass personal smart card presents outstanding new technology designed to meet the needs of the twenty-first century—providing genuine individual identification, secure protection of personal information, ease of use and discretionary access to benefits and data bases.

 Be Part of the Future

e-pass Technologies, Inc.

What is *e-pass*?

e-pass is a new generation of portable information technology designed for personal use and identification, centered in a patented multi-functional smart display card developed in Europe.



The *e-pass* card can best be described as a credit card-sized computer, with one or more display screens, a keypad and both internal and external power sources. This format, designed small enough to fit in a wallet, provides access to, and interaction between, different sources of data which are contained solely within the card itself or, in combination, within both the card and external sources. The *e-pass* products merge the latest technologies of smart cards and small personal computers. The current range of smart card applications is limited to the small sets of data they contain, which can only be accessed by an external reader machine and not displayed on the card to its holder. Technological advances now make it possible to offer the next generation multi-functional smart card, capable of storing multiple sets of data, access to which is controlled by the individual card holder. The patented *e-pass* smart card is capable of storing multiple sets of data—in both open and restricted accounts—access to which is controlled by the individual cardholder, and which can be displayed on the screen(s) of the card.

The number of functions planned for the card governs the power of the microprocessor chip contained within the card.

Personal data, logos and advertisements may be placed on the surface and on the screen of the card.

Each card function operates on the unique application software and data set of the issuing organization as it applies to the cardholder. Moreover, each application and

data set of different sources are electronically isolated within the card from all other applications and data sets.

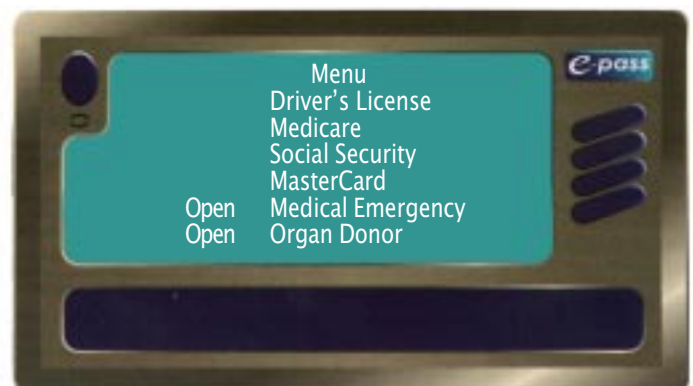
How Does *e-pass* Function?

The card issuer, by means of a computer, encodes the basic (core) information regarding the cardholder into the microprocessor chip contained within the card. If desired, this can include a photograph and signature of the cardholder. The card issuer may also establish some of the restricted, or closed, information accounts for the cardholder (such as health and medication). The card's core data may not be revised. As the card is issued, a Personal Identification Number (PIN) is assigned to the cardholder which thereafter governs access to the *e-pass* card's closed accounts of data.

When the card is turned "ON," a menu appears on the window display indicating all of the functions contained within the card.

By scrolling down the list of functions, the user may select and display any listed applications. The different applications are separated into "open" and "closed" categories. Those items that are in the closed category are accessible only when the cardholder inserts the proper PIN. This category is reserved for those items that are of such a personal nature that making them available to unauthorized individuals would compromise the cardholders' financial or personal privacy.

Driver's License, bank cards, Social Security, Medicaid, etc. are examples of card applications that would be included in the closed category, permitting access only by inserting the proper PIN.



The cardholder is able (except for the core values) to revise, add, or delete information within the *e-pass* card—or authorize another party to do so—through use of a computer. Also, through a computer, information—such as product discounts offered by advertisers—may be downloaded from the Internet. And, upon insertion of the card into special readers, organizations or merchants can install or update data or messages in the card.

Any and all information placed within the *e-pass* card can be displayed on the card's screen, or on an external monitor screen, whichever the cardholder so chooses.

e-pass for Students

Students will find in *e-pass* a valuable resource for self-development and for functioning in the modern world. Among other benefits, applications for students include:

- Enhanced computer literacy
- Consolidation and safeguard of personal information
- Secure personal identification
- Ability to continually add and retrieve useful data
- Multiplicity of application for both personal and institutional purposes
- Access to benefits through product advertising and merchant loyalty programs
- Portability and ease of use of the *e-pass* card
- Convenient format for maintaining schedules and school-related information
- Convenient transfer of information to other parties

e-pass for Education Institutions

Educators will discover that *e-pass* enables them to innovate, excite their students, achieve new efficiencies and savings, produce significant new income for their institutions, and bind faculty, alumni, current students and extended community closer to the institution.

- Introduction of *e-pass* will, in itself, be an innovation for the educational institution. Educators will be able to further develop unexpected new applications for *e-pass*.
- Students will be excited about the intriguing technology and practical benefits of *e-pass*.
- Numerous functions and activities now performed in a variety of ways may be consolidated into the portable *e-pass* technology. These include:
 - Student/faculty identification
 - Facility, and event reservation and access
 - Academic and sport schedule maintenance
 - Health and academic record keeping
 - Purchase of food, goods, and services
 - Validation of eligibility for benefits, discounts
 - Access to PCs, Internet, copiers, etc.



Through the introduction of a selective advertising program, institutions may receive ongoing income each time the *e-pass* card is used to log onto its Internet site for information or upgrade, and each time it is used in registered sales transactions.

The *e-pass* card can be used to enhance a feeling of community among students, faculty, staff, alumni, and local merchants. This can be both symbolic and tangible.



Be Part of the Future

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