E-Signature for safer and more secure transactions

As the value of remote transactions grows exponentially, so does the risk of being the target of fraudsters. With sophisticated fraud schemes such as man-in-the-middle attacks, authentication alone is no longer sufficient to confirm the authenticity and the integrity of transmitted information. By combining a cryptographic secret with elements such as account numbers, amounts and timestamps that are unique to each particular transaction or document, an electronic signature (e-signature) can be created. An e-signature ensures authenticity and integrity of the transmitted data. Any attempt to tamper with any element renders the signed transaction or document invalid.

A complete security credential

The self-powered Multi-Button NID Security Display Card is a convenient and complete security credential. It is equipped with a high contrast 6-digit LCD, a power button and an easy to use 12-button capacitive keypad. Interactive applications that require user input are now possible and the need for a separate, cumbersome calculator-like card reader is eliminated. E-signature functionality enables increased security and provides greater control over remote transactions. The 12-button keypad enables intuitive menu navigation, challenge/response and device PIN protection. Event-based or time-based dynamic one-time-passcode (OTP) provides a secure credential for strong authentication. Tap-n-go applications and retrieval of OTPs, e-signatures and other useful data is possible wirelessly via the integrated ISO 15693 near field communication interface.

Versatile and customizable

The NID Security Display Card can be equipped with a PKI or dotNET chip, an RFID chip, magnetic stripe, signature panel and holographic hot-stamps. It can be personalized with laser engraving. The Display Card can be produced with custom, vibrant full color graphics using the latest offset printing technologies to reflect the exact issuer branding and identity.
**Easy integration and deployment**
With support for Initiative for Open Authentication (OATH), and MasterCard Chip Authentication Program (CAP) algorithms, the NID Security Display Card is compatible and interoperable with existing authentication solutions that are implemented by the leading authentication providers today. Compatibility with standard RFID ISO 15683 equipment enables loading of custom algorithms, applications, key files, firmware updates and other data via near-field communication. With ISO 7810 ID-1 dimensions, it integrates into existing card distribution, fulfillment processes and facilitates end-user adoption.

**Highest quality and reliability**
NID Security Display Cards are of the finest quality and highest reliability in the industry. Certified to the highest standards and meeting or exceeding international regulatory requirements, each card has been engineered to deliver a long service life and tested to withstand real-life usage conditions.

**Security that is Convenient and Easy**
The NID Security Display Card integrates a high contrast LCD that is designed for optimal readability in all types of lighting conditions. With an instantaneous refresh rate, large amounts of information can be displayed by scrolling across the screen. The Display Card can combine the functionalities of an authenticator, an e-signature device, a physical access control badge and a payment card without compromising convenience. Unlike connected solutions such as OTP via SMS and software-based solutions, the Display Card is independent, more secure and more reliable. It is not vulnerable to viruses that roam smartphones and other mobile devices. Non-reliance on signal coverage ensures anywhere, anytime availability.

**Why NID Security?**
NID Security has been listening to customer feedback and investing continually in research and development. The technique of encapsulating electronics into ISO card form factors has been perfected in order to deliver products built to meet real world demands. NID Security Display Cards are the latest innovation in payment cards, enabling remote authentication and display of critical information on a single convenient device. Extensive testing and validation ensure our products meet or exceed international regulatory requirements.

With over 4 million Display Cards deployed, NID Security is the world leader in Display Card manufacturing.

The NID Security partner network includes the most innovative and dynamic solution providers in the world that can support every aspect of the implementation with maximum efficiency.

* Extended 2-Year or 10K OTP and Premier 3-year or 15K OTP are available cost options
** For Laser Engraving, limitations may apply, please discuss with your sales contact.

*Note 1:* Storage Temperature: -20°C to +40°C. (Ideal storage temperature is 1°C to +10°C)

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**Standard Card Features**
- 6 digits LCD, 7 segments characters
- 1 mechanical button
- 12-button capacitive keypad
- ISO/IEC 7810 compliant
- Dimensions: (LxH): 85.60 x 53.98 mm
- Contactless perso: ISO 15693
- Event-based and time-based OTP modes
- Real-time clock for time-based version
- OCRA, HOTP, TOTP and MasterCard CAP algorithms
- 1-year standard warranty (3-year option)*

**Near Field Communication Capabilities**
- ISO 15693 Interface
- Get/set date/time
- Set OTP crypto key
- Generate and get OTP
- Get battery voltage

**Card Features**
- Magnetic stripe: 2 or 3 Ttrack
- Oersted: 300 or 2750, (optional customer specific)
- Signature panel: non-secure; secure
- Hologram: non-secure; secure
- Contact chip embedding: customer specific
- Printing: offset CMYK, screen & variable imaging technologies
- Custom algorithms and firmware development

**Personalization Options**
- Laser engraving**
- Magnetic stripe encoding
- Contact chip perso
- RF chip perso

**Optional Features**
- Magnetic stripe: 2 or 3 Ttrack
- Oersted: 300 or 2750, (optional customer specific)
- Signature panel: non-secure; secure
- Hologram: non-secure; secure
- Contact chip embedding: customer specific
- Printing: offset CMYK, screen & variable imaging technologies
- Custom algorithms and firmware development

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