

Prox Smart Card Readers

||||| Contactless and dual interface smart card readers



ENTERPRISE > SOLUTION

Continuing adoption of smart card technology worldwide

The adoption of smart card technology is rapidly growing at a global scale. The growing user base means that there is much needed in the way technology and infrastructure are supported, to ensure usability and functional interoperability.

Identity and access control in private and public organizations continue to be a significant market for smart cards globally, due in part to the increasing security awareness among high-level decision makers. The use of information technology has also spawned the need to secure digital assets, people and sensitive information. The ease-of-use afforded by contact and contactless smart cards has dramatically increased the popularity of using the technology in public and private sectors. In addition, the convenience of the card form factor for physical and network access combined with the smart card security features have no doubt convinced the majority of smart card users.

The switch to smart cards will need smart card readers that support a multitude of access types, technology, and standards. Organizations need to continue to invest in infrastructure that supports dynamic authentication. Furthermore, smart card technology has been delivering benefit to users



> Key features

- Choice between dual interface (Prox-DU) and contactless with SAM (Prox-SU)
- Easily connect to PCs using USB plug
- Plug-and-play in both contact and contactless modes
- Use native PC/SC drivers of operating systems
- Compliant with international standards such as ISO 7816, ISO 14443, EMV 2000
- Support of MIFARE® cards
- Compliant with PC/SC and CCID specifications
- Designed to evolve by allowing rapid firmware update
- Allows for smooth migration from contact to contactless technology
- Sleek design
- Optional stand base available for convenient desktop use

through improved convenience, greater customer satisfaction, and faster transactions. These benefits significantly increase the visible return on investment and will help increase the spread of compatible readers.

Trusting the leading supplier of smart card readers

As the world's leading smart card supplier, Gemalto has several years of experience in providing smart card interfaces to public and private organizations and continue to rely on our expertise for their network security projects. Our list of customers includes those from sectors such as IT, aeronautics, health care and pharmaceuticals and defense.

Gemalto has also been recognized as a world's smart card reader market leader for the last six years* and has since delivered over fifteen million units to thousands of customers worldwide. The quality and reliability of Gemalto's readers continue to contribute to the success of our customers' smart card-based solutions.

* Source: World Smart Card Readers and Chipsets Markets (Frost & Sullivan, May 2009)

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IIIIII Contactless and dual interface smart card readers

Prox contactless and dual-interface smart card readers

To address current and future market needs, Gemalto has developed two contactless readers: **dual interface smart card reader** (model name: Prox-DU) and **contactless reader with Secure Access Module (SAM) card slot** (model name: Prox-SU).

The dual interface smart card reader (Prox-DU), as the name suggests, combines contact and contactless smart card interfaces in one cost-effective reader. It is ideally suited for sectors that require both technologies such as health care, identity and access control. The dual interface reader also conveniently provides a smooth migration path from contact to contactless smart card applications, thus reducing the total cost of ownership for both public and private organizations.

Prox-DU is compliant with the latest industry standards, including current versions of ISO 7816, EMV 2000, IAS for the contact interface and ISO 14443, MIFARE®, and NFC for the contactless interface.

The contactless reader with SAM slot (Prox-SU) on the other hand, is a PC-link contactless reader equipped with the added security of a built-in Secure Access Module slot. This type of reader addresses markets that need a contact SAM card as required in specific security schemes based on DESFire, MIFARE® Plus or Calypso cards. Prox-SU is ideally suited for PC-based applications such as access control, identity, mass transit, loyalty and health care. Like the dual-interface smart card reader, Prox-SU also provides a smooth migration path from contact to contactless smart card technology and supports the latest industry standards, including current versions of ISO 14443, MIFARE and NFC.

Gemalto's Prox contactless and dual interface readers are fully compliant with the CCID protocol for smart card readers. Prox-DU and Prox-SU use the native PC/SC drivers that are included in the latest OS versions and are thus

directly operational after plug-in. Both readers do not require driver installation.

For corporate identification and network access control

The use of both contact and contactless technology in corporate environments has created the need for a cost-efficient smart card reader, able to bridge and in some cases merge applications that use both technologies. Gemalto's Prox dual interface reader is able to perform various access control applications in use within public and private spheres. Granting physical and network access to corporate users have been made simpler and faster with Gemalto's Prox readers. The readers' read and write capacities offer speedy yet secure network log-on and user identity authentication. Migration from contact to full contactless smart card technology is also made simpler.

The readers are fully plug-and-play in both contact and contactless modes and use native PC/SC drivers of most operating systems available in the market.

Gemalto's Prox readers with the right smart card can also be used in corporate applications such as signing emails, multi-functional printers and user enrollment systems.

For use in health care and medical centers

Demanding environments such as health care and medical centers require contactless technology to ensure proper hygiene and limited stock handling. The Prox readers' sleek and intelligent casing is suitable for use in such environments. They have also been designed to be easily cleaned and maintained.

The optional stand base ensures that health care professionals and patients alike no longer have to physically handle the reader when inserting/placing and removing a smart card.

Gemalto's readers offer a multi-application functionality in a stream-lined and easily configurable solution for

> Key benefits

- Secure network log-on and physical access
- Convenient for use in applications that use contact and contactless technologies
- Reduced total cost of ownership
- Broad user base for contact and contactless technologies
- Supports multi-applications in various sectors
- High-speed transactions
- Elegant design and ease-of-use
- Greater customer satisfaction

health care centers. Applications include secure network log-on for doctors using any or multiple PCs within the work premises and secure physical access to restricted areas.

Other applications

> For e-business and home banking applications

For enterprises and banks offering web-based services, Gemalto's Prox smart card readers complement smart cards to bring a simple solution that protects user identity during web transactions. The new Gemalto Prox-DU and Prox-SU readers also enable companies and banks to verify not only the users' identity but as well as the origin and ownership of transactions.

> For NFC-enabled applications

Gemalto's Prox readers can also be used for NFC-enabled devices such as cards and mobile phones that are used for a variety of applications such as mobile payment, smart poster and mobile ticketing, among others.

> For transport e-ticketing applications

Prox readers as PC-based readers are convenient for use in transport e-ticketing applications that require secure, high speed contactless readers. Transport companies with web-based ticketing portals can offer their end-users the convenience of crediting smart card-based transport tickets at home or specific points-of-sale.