

Tokens by AR

PKI  
Made  
Simple™



### Three Generations of Secure Key Storage

For over a decade, AR has led the world market in the creation of innovative hardware tokens based on RSA technology (public key encryption and digital-signature algorithm). In popular terms, these became known as SmartCards, and their uses have multiplied on a global level. A choice of different AR token solutions is available, each suited to particular business needs.

- Our first generation token is **PrivateCard**, an innovative SmartCard with 32KB of memory, soon to be expanded to 64KB. **PrivateCard** carries sensitive information with ease, including private key storage for quick ID authentication.
- **MiniKey** is the second generation, where SmartCard technology is combined with reader capability to produce a light, compact pocket-sized device that can be carried on a keyring like a regular key, to be inserted into the "lock" of the host USB port.
- AR is proud to introduce the newest generation of tokens: the Cardless SmartCard™.

### Smart Cards Go Cardless

The Cardless SmartCard™ is a technology that stores private keys in a centralized secure appliance that resides in the company's data center. In operation it resembles a giant electronic hub of Network-Attached SmartCards, forming a network that can serve as many as 5,000 users per one server. This revolutionary technology is the core technology of **CoSign**, AR's innovative digital signature product.

### PrivateSafe – the PIN Guardian

SmartCard verification is a vulnerable process, when the PIN is momentarily exposed to the electronic reader application. **PrivateSafe**, AR's SmartCard reader, makes sure that the environment used for PIN entry is shielded from unauthorized viewing by malicious scripts and viruses.



## PrivateCard and MiniKey Benefits

- Secure Windows Logon

Both **PrivateCard** and **MiniKey** support Microsoft Windows 2000, Windows XP and Windows/NT authentication for users logging on to these operating systems. Any one of these AR tokens can serve as an authentication device for other operating systems as well. Contact our Professional Services team for more details.

- Remote User Authentication for VPNs

AR has partnered with most of the existing VPN (Virtual Private Network) vendors to provide VPN users with strong authentication and storage of personal encryption keys.

- PKI Made Simple™

AR tokens have been tested with major PKI Certificate Authority (CA) systems to ensure seamless integration of our products into the PKI environment.

- Fully compatible with other security tools

The entire line of AR tokens is built to support the prevailing cryptographic standards and protocols, which guarantees full interface ability and smooth integration with other security applications.

## A World of Security for Every Environment

Whether your needs call for a secured environment to keep private keys safe, or an all-around tool for strong authentication, AR tokens offer exceptional security at a reasonable cost.

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Algorithmic Research (AR) specializes in innovative digital signature applications based on state-of-the-art cryptographic technologies. AR products include business applications, solutions for financial markets and security products that are designed using our patented technologies and enjoy international recognition for their superiority and cost-effectiveness. Companies worldwide that depend on secured transactions and paperless applications, including those in the financial, healthcare and governmental sectors, depend on AR's expertise in creating innovative solutions.

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**Tokens – the sure key to ID security.  
It's simple. It's from AR.**



Algorithmic Research

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