

## about identita

Identita provides unbreakable, turnkey identity authentication solutions to organizations requiring absolute customer identification. Security, and in particular identity verification, is the foundation of virtually all personal transactions, from phone banking to government service delivery. The inability to provide absolutely secure, irrefutable identification of individuals costs financial institutions billions of dollars annually, prevents innovative development of enterprise applications, and undermines the consumer confidence necessary for the widespread adoption of electronic commerce.



Identita  
sound identity solutions.

Identita

acoustic cards

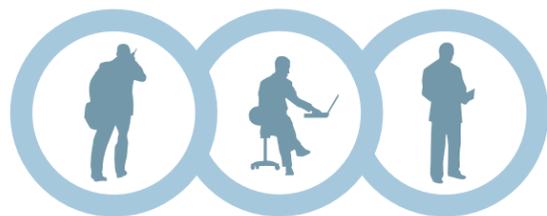
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# acoustic cards

## powered acoustic card™

Identita's powered acoustic card uses state-of-the-art dynamic acoustic recognition technology. Emitting a unique digital tone each time the user presses the card button, this powered card generates a unique acoustic user signature to enable authentication with a microphone-equipped computing device or through a telephone. Depending on the application, the software automatically records and compresses the digital audio signal containing the binary sequence and relays the signal to the authentication server. The authentication server demodulates the signal to extract and check the user's PIN/passphrase, then grants appropriate access to the application. Acoustic cards are extensible to three-factor authentication with the addition of built-in biometric sensors.



## how a powered acoustic card™ works

The audio signal is captured locally on the user device (PC microphone, PDA, cell phone, etc). For this, the user will have previously loaded the plug-in that will carry out the tasks of automatically recording the signal and sending a compressed version of it to the authentication server. Either the client application or the authentication server demodulates the signal to get the binary sequence and relays it with the user's pin/passphrase to the authentication server. Once the signature and the password have been verified by the authentication server, access to the application is granted.



## affordability and ease of use

Most companies still do not have some manner of two-factor authentication, even for remote access users. This reflects the high capital costs associated with purchasing, installing and maintaining the average security keyfob or powered card infrastructure. The EchoSystem acoustic authentication device breaks this barrier, adapting to any environment without requiring a specific reader. Acoustic authentication devices require only the microphone of a computing device or telephone.

EchoSystem's solutions are not only secure, they are also the most cost-effective identity authentication systems available. These solutions can be deployed rapidly across current infrastructure and integrated seamlessly with existing security frameworks and protocols.



## about our technology

With research and development facilities in Canada and its international offices in Barbados, Identita creates identity management solutions involving hardware tokens and client server application software. Identita's EchoSystem platform is a multi-token aware identity management back-end with a complete suite of application modules to meet the requirements of virtually all verticals.

Identita has developed unique proprietary handshake protocols to counter phishing, using Public Key Infrastructure (PKI) and digital certificates. Identita currently manufactures an acoustic one-time password (OTP) powered card, an OTP display card (embedded, flexible display on the front of the powered card), and will soon release biometric and GPS cards. Identita's solution goes beyond traditional powered card implementation. Its credit card-sized format enables the inclusion of other technologies such as magnetic stripe, proximity chips, EMV chips, bar code, RFID and picture ID.

Identita licences RAMP (Reaction Assisted Moulded Process) Technology, an exclusive manufacturing process. This versatile electronics packaging technology uses patented low-temperature, low-pressure reaction injection moulding techniques to securely integrate electronics into small form factors such as powered cards, smart tags, key fobs, memory cards and other portable electronic devices. RAMP technology can be used with PVC, Polycarbonate, Teslin™ (i.e. synthetic paper), and a range of other materials for specific properties and applications.

Identita's powered card technology, combined with the RAMP manufacturing process, represents the future in powered card technology. This affordable, high-end security solution delivers secure end-user devices that are easy to carry and use and backed up by the EchoSystem platform – a platform that delivers all the strengths of typically expensive authentication and identity management systems through a single management console. Strong encryption, x.509 certificates, directory support and multi-customer management make EchoSystem the next generation product of choice.

## technical specifications

**Card Format:**  
ISO 7810 (0.8 mm x 54 mm x 84 mm)  
ISO 7810 Tested & Certified

**Card Specifications:**  
8/16/32 Bit Crypto-processor  
Low Power Consumption  
Tamper-proof  
Polycarbonate, PVC or Teslin Surface

**Algorithms:**  
SHA-256  
AES 256/512 ECC 192//384

**Powered Card Types:**  
Display Card  
Audio Card

**Durability:**  
3-5 years, based on usage and battery size

**Personalization Options:**  
Magnetic Strip  
EMV Chip  
Contactless Interface (LF, HF, UHF)  
Photo ID  
Bar-coding  
Serial Numbering  
Embossing  
Foil and Laminates

**Applications:**  
Disk Encryption  
File and Folder Encryption  
CD/DVD Encryption  
USB-Key Encryption  
Network Share Encryption

**Supported Platforms:**  
Windows™  
MAC OS/X™  
Solaris 10  
Linux