Introduction

The AmbiSecure BioCard provides an innovative solution by integrating a fingerprint sensor into a smart card which supports various multi factor authentication methodologies like FID02, PIV as well as others like OpenPGP. AmbiSecure BioCard offers a highly secure way to confirm that the person claiming his/her identity is, in fact, him/her. AmbiSecure BioCard makes identification, authentication and even payment validation more convenient and secure by taking advantage the 'who you are' factor of the multi factor authentication mechanisms instead of entering card PIN.

Technical Specification

Material Type	Flexible
Temperature Range	-25 to 85^{0}C
Weight	5.6 ± 0.1 g
Contactless Frequency	13.56 MHz
Java OS Platform	GlobalPlatform 2.3.1, Java CardTM 3.0.5
Interface	ISO/IEC 7816 ISO/IEC 14443 Type A
User NVM size	300k
User RAM size	6k
Algorithms	RSA 2048, AES, SHA-I, SHA-256, SHA-384, SHA-512, MDS, 3DES (ECB, CBC), HMAC, ECC(FP_384)
Fingerprint module	Match on secure element Numbers of fingerprint templates customizable. FRR: 4/100 FAR: 1/20,000

Application

FIDO Biometric

The AmbiSecure BioCard is a hardware authentication solution that is FID02 certificated. It helps organizations accelerate to a password-less future by providing support for the FID02 protocol.

Certificate Storage

AmbiSecure Certificate Storage provides facility to store any PEM or PFX certificate within a secure element for various use cases where secure storage of certificates is required

PIV Biometric

The AmbiSecure BioCard is compatible with the PIV card interface, and are also fully interoperable with the Windows and Mac OS thus avoiding the need for a complex and expensive PIV management system.

Secure Storage

AmbiSecure Secure Storage Applet provides the user the ease to storage any kind of text for over 200 records inside the secure element that can be retrieved only after authorization of the Biometrics of the owner of the data.

NDEF

AmbiSecure BioCard lets you exchange contact info just by tapping. You can tap and share your contact details.

Open PGP

AmbiSecure OpenPGP product servers as a key-based encryption method used to encrypt files so that only their intended recipient can receive and decrypt them

ambisecure@ambimat.com   +919106922641   ambisecure.ambimat.com

Features

Speed

In order to have a better using experience, AmbiSecure BioCard ensures that enrollment and verification process as fast as possible. Thus, the user's experience, including matching, together with capturing and extraction, is almost seamless.

Accuracy

There is always need to balance between False Acceptance Rate (FAR) and False Rejection Rate (FRR). AmbiSecure BioCard is able to offer a better user experience and high security by setting a trade-off configuration of FAR and FRR.

Fingerprint Enrollment

Depending on different scenarios, AmbiSecure BioCard offers flexible enrollment methods.
• Enrollment through Mobile NFC (on iOS and Android devices)
• Enrollment through Smart Card Reader on Windows settings
• Enrollment with offline sleeve