

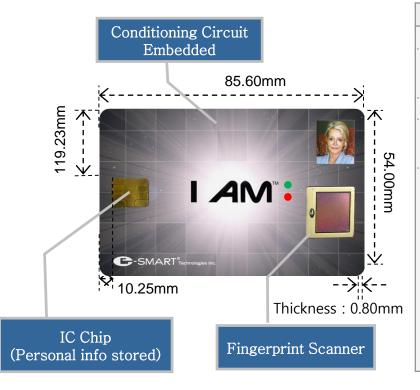
I AMTM CARD INTRODUCTION

March, 2009



1. I AM[™] Card Introduction

- I AM™ Card is the world's first ISO standard compatible smart card with a complete on-card biometric fingerprint sensor and multi-function applications (USP 7,278,025)
- I AM™ Card is activated for use only after the user is identified by on-card fingerprint sensor (replacing or supplementing Pin No.)



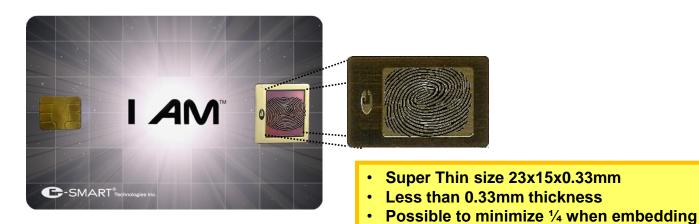
Item	I AM™ CARD				
Classification	Contact and Contactless Type (Optional)				
Standard	ISO7816 (Standard IC Card Contact Communication Specification) ISO/IEC 14443 A or B (Standard RF Card Contactless Communication Specification)				
Input Voltage	3.0 ~5.5 V				
Reader Unit	Contact : Compatible with existing ISO standard system Contactless : Original Wireless Power Reader (Optional Configuration Required)				
Feature	1) Identity Verification and Privacy Protection 2) Valid distance Contactless Communication (Optional) (Distance: 0.5 inch) 3) Network Compatibility (TCP/IP integrated Network Authentication) 4) ISO Standard Dimension 5) LED Indicator (Optional) Red/Green (Blue) LED 6) Wireless Power (Optional) Patent protected Solivan Air Power Transfer. 7) PKI Storage Function (additional issuance necessary) Compatible with specification of General banks and financial settlement				

^{*} All or part of descriptions are subject to change under e-Smart's discretion at any time without notice.



2. I AM[™] Card Fingerprint Sensor

II. Product Introduction



- Patented ISO compatible Fingerprint Matching on card system (USP 7,278,025)
- Fast and robust fingerprint matching system on card by the combination of patented fingerprint sensor (USP 5,079,949, JP 1805713 etc), patent pending matching algorithm and fast access flash ROM embedded RISC CPU.
- · Patent pending faked fingerprint detection function. (Optional)
- Collaborations with BMF, Denver Airport and Japanese District Police Department for more than three years.

Super Thin Gold type Biometric Fingerprint Sensor					
FRR	0.01%				
FAR	0.001%				
Authentication Rate	0.5-1.5 sec				
Algorithm Method	Feature points, hybrid, and complex number plane				
Finger Template	Maximum 5 (Optional)				
Sensor	500 dpi, 260 dpi				
Electrostatic Protection	16kv				
Recognition Method	Right power capacity Method (current) Pressure Method (expected)				
Grayscale	8 bit / cell				

onto cell phones

^{*} All or part of descriptions are subject to change under e-Smart's discretion at any time without notice.

3. Card Comparison



Comparison of I AMTM Card with Existing Access Control Card

Category	I AM™ Card	General Access Control Smartcard	
User Authentication	Use only user's fingerprint (only one PIN)	Anyone can be authenticated	
Theft or loss	Cannot be used by others	Anyone can be authenticated	
Duplication Possibility	Never	Possible	



Comparison with Other Fingerprint Sensor

X	Δ	0	0
BAD	FAIR	GOOD	EXCELLENT

Conditions	Optics	Electricity	Conductivity	e-Smart Card
Dry skin	X	Δ	Δ	0
Wet skin/moist	X	Δ	0	O
Wet sensor	X	X	0	0
Light stimulus	X	O	0	0
Finger position		Δ	Δ	Δ
Foreign substance on finger	X	Δ	Δ	0
Sensing scope	\bigcirc	X	X	0
ESD protection		X	X	0
Price	X	0	0	0

NID CARD

Residence card, public officials card, driver's license, passport, health insurance card

BANK CARD

Prepaid card, debit card, credit card, electronic bankbook

ACCESS CARD



Bus, subway, taxi, parking lot, tollgate, access control to building, computer and network access control

Bank Card

I AM

Thank you



