

# AuthenTec AES1710

The Ideal Solution to Secure Smart Phones & Mobile Commerce Transactions



The AES1710 is a revolutionary, high performance slide sensor – combining AuthenTec’s proven size, security and touch-powered features with enhanced durability and lower operating voltage to deliver the most versatile solution for the wireless market.

Already designed into some of the most innovative NFC and biometrically enabled cell phones, the AES1710 protects access to the phone’s stored information and enables operators to provide profitable new mobile commerce and wireless banking services.

The same sensor also allows manufacturers to easily add new features such as 3-D gaming navigation, touch menu scrolling, multi-finger speed dialing, hot key application launch, instant song or photo recall, and other personalized applications that differentiate the phone and improve the user experience by the simple swipe of a finger.

## TECHNOLOGY FEATURES AND BENEFITS

### TruePrint®

Patented technology reads fingerprints from below the surface of the skin

- Able to read virtually every fingerprint, every time
- Provides the most accurate fingerprint images for enhanced security

### TrueMatch®

Hybrid pattern matching engine ensures accurate user authentication

- Analyzes more unique fingerprint information vs. minutia point matchers
- Enables the industry’s fastest and most convenient fingerprint matching

### TrueNav

Use the sensor as a versatile user interface device

- Navigate menus with ease using track-ball emulation
- Browse contact lists and email faster with scroll acceleration

### The Power of Touch®

Unleash The Power of Touch with multiple uses and personalized options, using your fingerprint to

- Lock and unlock a phone, protecting sensitive information
- Authorize mobile commerce (NFC) and mobile banking transactions
- Quick launch frequently used applications
- Replace mobile website usernames and password
- Set personal speed dial phone numbers

## AES1710 FEATURES AND BENEFITS

### EASY TO USE

- Lower power consumption saves battery life
- Reduced processor load for fast matching and 3-D gaming navigation
- Lower navigation and finger detect current consumption
- Durable, ultra-hard polymer surface coating to enable sensor placement in virtually all of today’s mobile device designs
- Scratch and impact resistant; withstands greater than 10 million rubs
- Low cost, highly integrated sensor
- Minimal bill of materials



SECURITY



CONVENIENCE



NAVIGATION



PERSONALIZATION

*The Power of Touch*

# AuthenTec AES1710

## THE AUTHENTEC DIFFERENCE

### SUPERIOR TRUEPRINT AND TRUEMATCH TECHNOLOGIES

The AES1710 employs AuthenTec's award winning TruePrint and TrueMatch technologies, the most accurate sensor and pattern matching technologies in the industry. These technologies capture the highest quality fingerprint images – resulting in significantly better biometric performance than any other solution on the market today.

### THE POWER OF TOUCH

AuthenTec's unique Power of Touch approach combines the most advanced security, with additional convenience, navigation and personalization functions controlled by the simple swipe of a finger. The Power of Touch enables wireless manufacturers to easily and cost-effectively add capabilities such as Smart phone e-mail and data protection, efficiency applications such as menu scrolling, hot keys, quick application launch and secure web and VPN access. All with the slide of a finger.

## AES1710 SPECIFICATIONS

High Performance Features	<i>Advanced security Fast finger image capture of 50cm/sec finger slide speed 3-D Game navigation Unequaled "ability to acquire" Industry best FAR/FRR Template compositing Template updating</i>
Small Form Factor	<i>39 Ball Grid Array (BGA) 12 x 5.2 x 1.76 mm</i>
Robust Packaging	<i>Scratch and impact resistant; ultra-hard surface coating Withstands greater than 10 million rubs RoHS compliant/Lead free</i>
Detection Matrix	<i>128 x 8 pixels @ 500 ppi 6.5mm x .41mm array size</i>
SelectaBus	<i>8-bit parallel bus SPI Interface Master and slave modes Master-Mode supports DMA</i>
I/O Voltage	<i>1.8V</i>
Operating Voltage	<i>1.8V</i>
Commercial Temperature Range	<i>-20C to +70C</i>
Current Consumption @ 1.8V	<i>23mA imaging 2mA navigation mode 86uA @ 250mS finger detect rate</i>
ESD Resistance	<i>IEC 61000-4-2 Level 4 (+/- 15KV)</i>
Supported Operating Systems	<i>Symbian Microsoft Windows Mobile Linux Qualcomm REX Others available upon request</i>

## THE AUTHENTEC TOTAL SOLUTION

AuthenTec offers the most complete and flexible solution to enable manufacturers to design-in advanced biometric fingerprint sensors. Our total solution approach includes a complete family of sensors; hardware and software kits for easy evaluation and integration; proven solutions from more than 50 hardware, software and design partners; and end-to-end integration support from an experienced technical staff.

## CONTACT US

### NORTH AMERICA

AuthenTec | U.S. Headquarters  
709 South Harbor City Blvd.  
Melbourne, FL 32901 USA  
phone: 321-308-1300

### San Jose, CA

phone: 408-879-2383

### EUROPE

Germany | Munich  
phone: 49 (8444) 918290

### ASIA

China | Asia Headquarters  
4000 Wen Xiang Road  
Songjiang Shanghai 201616  
phone: 86-21-5776-3300

### Japan | Tokyo

phone: 81-80-5026-9710

### Taiwan | Taipei

phone: 886-2-8758 2719

### Korea | Seoul

phone: 82-11-380-6164

### WORLDWIDE

**REPRESENTATIVES NETWORK**  
A complete listing of AuthenTec's network of representatives is available on our web site.

[www.authentec.com](http://www.authentec.com)

