



## The World's Most Secure Fingerprint Sensor

The world's leading PC manufacturers are using this breakthrough slide sensor in their next generation of products to deliver the industry's most innovative security. Key product features include AlwaysOn user authentication, greater convenience versus passwords, and secure storage of personal information in the hardware-based personal data vault that is software configurable and upgradable.

The AES2810 is the most cost-effective match-on sensor solution on the market today, and is tailored for today's highly mobile workforce and consumer.



### KEY FEATURES AND BENEFITS

#### TRUSTED SECURITY

- Fingerprint matches performed on-sensor
- Hardware security module "locks" data
- Fingerprint image transmitted securely using AES encryption
- All secure encryption keys generated and stored on chip
- Secure sensor storage of algorithms, templates, and personal data

#### EASY TO INTEGRATE

- Highly integrated single-chip match-on sensor
- Low cost bill of materials, reduces total solution cost
- Solution kits and applications support to accelerate time-to-revenue

#### SUPERIOR TECHNOLOGY

- TruePrint technology provides the most accurate fingerprint image
- TrueMatch pattern matching accommodates different swipe angles
- TrueFinger anti-spoofing protection

#### EASY TO USE

- Able to read virtually every fingerprint, everytime
- Fastest swipe speeds available
- Supports single sign on from boot-up to desktop
- Continuous template updating

#### THE POWER OF TOUCH

- Password replacement
- Scroll wheel & rocker switch emulation
- Quick application launch
- Fast user switching

#### LOW POWER

- USB low power device supports selective suspend
- Low power consumption in navigation and finger detection modes

#### DURABILITY

- Surface coating is highly resilient, withstanding more than 10 million rubs

#### ROBUST SOFTWARE APPLICATION SUPPORT

- Multi-factor authentication – tokens, smartcards, TPMs, etc.
- Windows login, file/folder encryption, secure e-mail, password replacement, pre-boot authentication, and more



## THE AUTHENTEC DIFFERENCE

The AES2810 employs AuthenTec's award winning TruePrint® and TrueMatch technologies, the most accurate sensor and pattern matching technologies in the industry. These combined technologies capture the highest quality fingerprint images – resulting in significantly better performance than any other solution on the market today.

AuthenTec's AES2810 supports secure pre-boot authentication, fast user switching, website password replacement, file/folder encryption and auto-password generation. The AES2810 integrates the company's proprietary TrueFinger™ anti-spoofing technology, which dynamically measures the properties of the skin during the scanning process. The sensor also integrates new TrueNav™ navigation features including rocker switch emulation, 4-way scrolling and Windows Vista gestures.

# AES2810

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

### SPECIFICATIONS

<b>High Performance Match-On Sensor Functions</b>	<b>High Definition 192 x 8 Pixel Array</b>
<ul style="list-style-type: none"> <li>Fingerprint Match</li> <li>Credential Release</li> <li>Template encrypt/decrypt</li> <li>Key Storage</li> <li>System State Measurement</li> <li>Anti-tampering Functions</li> </ul>	<ul style="list-style-type: none"> <li>9.75mm x 0.41mm array area</li> <li>500 pixels per inch</li> <li>Supports 3rd Party Matchers</li> </ul>
<b>On-chip Hardware Security Module</b>	<b>Advanced BGA Package</b>
<ul style="list-style-type: none"> <li>AES128 Encryption Engine</li> <li>Diffie-Hellman Key Exchange</li> <li>SHA-1 HMAC</li> <li>True Random Key Generator</li> <li>Unique Sensor Identity</li> </ul>	<ul style="list-style-type: none"> <li>45 Ball Grid Array (BGA) eXtendaBall Package</li> <li>13.8mm x 5mm x 1.68mm</li> <li>Integrated Drive Bezel</li> <li>RoHS Compliant</li> </ul>
<b>Super Technology Offering</b>	<b>Rugged Sensor Surface Coating</b>
<ul style="list-style-type: none"> <li>TruePrint® Subsurface RF Technology</li> <li>TrueMatch® Image Matching Technology</li> <li>TrueFinger® Anti-Spoofing Technology</li> <li>TrueNav® Cursor and Menu Navigation</li> </ul>	<ul style="list-style-type: none"> <li>Scratch and Impact Resistant</li> <li>Withstands &gt;10 million rubs</li> <li>Advanced 6-H hardness durability coating</li> </ul>
<b>USB 2.0 Full Speed Interface</b>	<b>ESD Resistance</b>
<ul style="list-style-type: none"> <li>Fully encrypted USB traffic</li> <li>Suspend w/ remote wakeup</li> <li>Selective Suspend Support</li> </ul>	<ul style="list-style-type: none"> <li>IEC 61000-4-2 Level 4 (+/-15KV Air, +/-8KV Contact)</li> </ul>
<b>Serial Flash Interface</b>	<b>Operating Voltage</b>
	<ul style="list-style-type: none"> <li>3.0V to 3.6V USB I/O</li> <li>1.8V Core Voltage</li> </ul>
	<b>Low Current Consumption</b>
	<ul style="list-style-type: none"> <li>Imaging @ &lt;41 mA typical</li> <li>Navigation @ &lt;10 mA typical</li> <li>Finger detect @ &lt;11 mA typical</li> </ul>
	<b>Operating Temperature</b>
	<ul style="list-style-type: none"> <li>0° C – 70° C</li> </ul>