



AES1660

AES1660 Smart Sensor

The AES1660 is AuthenTec's sixth generation sensor for the PC market. The AES1660 smart sensor offers the expanded functionality, biometric performance, low-power consumption, multiple packaging and form factor options, and low bill of materials (BOM) cost needed for easy integration into upcoming consumer notebooks and netbooks.

The AES1660 incorporates LED drivers for user notification and is ideally suited for today's consumer notebooks and Netbooks where size, performance, durability and low BOM costs are key considerations.

KEY FEATURES AND BENEFITS

Key Features

- Integrated LED drivers for multiple lighted LED packaging options
- TrueNav™ cursor and menu navigation
- Multiple battery-friendly operating modes
- Internal current limiter, voltage regulator and clock generator
- Supports USB2.0 full speed host and SPI Flash memory interfaces
- Ultra small BGA packaging
- New, highly durable black coating with matching bezel
- Highly integrated design enables low bill of materials cost

Superior Technology

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

Easy to Use

- Able to read virtually every fingerprint, every time
- 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 email, password replacement, pre-boot authentication, and more
- Supports the Microsoft Windows Biometric Framework Architecture



AuthenTec's Small Smart Sensor for PCs

The AES1660 multifunction smart sensor for consumer PCs and netbooks incorporates programmable LED drivers supporting 24-bit resolution, or 16 million color options, offering flexible lighted LED fading, blinking and color control options that enhance PC feature discovery and the PC user experience. This TruePrint® Smart Sensor supports the Microsoft Windows Biometric Framework architecture.

AES1660

Multi-function smart sensor for today's consumer PCs and netbooks

SPECIFICATIONS

High Performance Smart Sensor Functions	Advanced BGA Package
<ul style="list-style-type: none"> • Integrated USB interface • AuthenTec or third-party matchers • Menu, list and document navigation • Compatible with AuthenTec's TrueSuite® 	<ul style="list-style-type: none"> • 30 Ball Grid Array (BGA) eXtendaBall Package • 12.5mm X 3.9mm X 1.96mm • Integrated Drive Bezel • RoHS Compliant
Superior Technology Offering	Rugged Sensor Surface Coating
<ul style="list-style-type: none"> • TruePrint® Subsurface RF Technology • TrueMatch® Image Matching Technology • TrueFinger® Anti-Spoofing Technology • TrueNav® Cursor and Menu Navigation 	<ul style="list-style-type: none"> • Scratch & Impact Resistant • Withstands >10 Million rubs • Advanced 6-H hardness durability coating
High Definition 128 x 8 Pixel Array	ESD Resistance
<ul style="list-style-type: none"> • 6.5mm x 0.40mm array area • 500 pixels per inch • Supports 3rd Party Matchers 	<ul style="list-style-type: none"> • IEC 61000-4-2 Level 4 (+/- 15KV Air, +/-8KV Contact)
USB 2.0 Full Speed Interface	Operating Voltage
<ul style="list-style-type: none"> • Fully Encrypted USB traffic • Suspend and remote wakeup • Selective Suspend support 	<ul style="list-style-type: none"> • 3.0V to 3.6V USB I/O • 1.8V Core Voltage
Serial Flash SPI Interface	Multiple Battery-friendly Operating Modes @ 3.3V
<ul style="list-style-type: none"> • Flash Storage for fingerprint templates 	<ul style="list-style-type: none"> • Imaging @ 20cm/s 31mA typical • Navigation 10.5mA typical • Idle 4.4mA typical • Suspend <400µA
Operating Temperature	
<ul style="list-style-type: none"> • 0°C to +70°C 	

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A complete listing of AuthenTec's network of representatives is available at our web site.

www.authentec.com