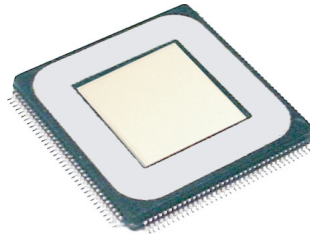


FingerLoc® AFS8500

Fingerprint Sensor



AuthenTec, Inc.
Personal Security for the Real World™

Introducing...

The all-new FingerLoc AFS8500 is AuthenTec's latest, low-power, small form factor fingerprint identification sensor IC. The FingerLoc AFS8500 uses familiar and reliable 0.6µ CMOS technology. This product combines silicon-based image capture with proprietary sensor control and matching algorithms.

AuthenTec's sensors with TruePrint® Technology look past the easily obscured outer surface of the skin to the living layer below where of the fingerprint originate.

AuthenTec sensors are the first and only fingerprint-based biometric authentication solutions that works for everyone, everywhere, under the most demanding real-world conditions.

TruePrint Is...

AuthenTec's unique, patented imaging technology. During imaging, a small signal is generated between the IC and the finger's live layer. More than 9,000 individual elements in the sensor matrix form a planar antenna array that receives this signal, creating a digital pattern that very accurately mimics the fingerprint's underlying structure.

A powerful component of TruePrint is Dynamic Optimization. This tool analyzes each frame, controlling up to 15 parameters to optimize the fingerprint image, regardless of unusual skin conditions or surface contamination.

High Performance...

- ▶ □ Unequaled "Ability to Acquire"
- ▶ □ Patented TruePrint Technology
- ▶ □ Industry's best FAR/FRR

Small Form Factor...

- ▶ □ 144-pin LQFP package
- ▶ □ 20 x 20 x 1.4 mm

Robust Packaging...

- ▶ □ Scratch and impact resistant
- (stress-tested to >40,000 psi)
- ▶ □ Rub-resistant to > 1M rubs
- ▶ □ Impervious to contamination

Detection matrix...

- ▶ □ 96 x 96 pixels
- ▶ □ 9.75 x 9.75 mm

SelectaBus...

- ▶ □ 8-bit parallel interface
- ▶ □ Asynchronous serial interface

Operating Voltage Range...

- ▶ □ 3.3V or 5.0V

Extended Temperature Range

- ▶ □ -20°C through +85°C

Power Dissipation @ 3.3V...

- ▶ □ 15 mW imaging (avg.)
- ▶ □ 90 µW standby mode
- ▶ □ 250 ppi image density

High-Rate Image Capture...

- ▶ □ Parallel - 52 frames/second
- ▶ □ Serial - 10 frames/second

ESD Resistance...

- ▶ □ IEC 61000-4-2 Level 4 (±15KV)

Supported Microprocessors...

- ▶ □ Intel StrongArm® SA-1110
- ▶ TI TMS320VC5509
- ▶ □ Intel PIII, P4

Superior Image Quality...

The result is a high-quality image that creates reliable authentication. These images ensure that we capture everyone, every time under virtually all conditions.

Target Applications...

The FingerLoc AFS8500 is well suited for use in time and attendance, access control, and security applications, such as door locks, POS terminals and other low cost security applications.

Convenient Security...

The FingerLoc AFS8500 is the designed for the demands of small form factor access control products. Its extremely small size and low power requirements make it ideal for applications requiring the security of biometrics with the convenience of one touch access.

Building On Success...

FingerLoc is AuthenTec's original fingerprint sensor family, which compliments the EntréPad line for the portable PC and mobile product markets.

Both product families are built upon AuthenTec's well-proven TruePrint Technology to produce the best images in the industry.

