Introducing...

AuthenTec's Embedded Developer's Kit (EDK) provides simple solutions for the development of standalone security systems specifically for embedded systems, well-documented modular hardware and software components help you to minimize the overall time-to-market for your products.

Broad Application Support

AuthenTec provides two types of Embedded Developer Kits (EDK); a full-system EDK ready-to-go for new designs and a subsystem EDK for integrating into existing systems. The sensor, based on TI's TMS320C5509 DSP based EDK provides a Match Subsystem (MSS) capability to integrate into existing products. A simple 4-wire communications interface offers easy integration of fingerprint biometrics into existing systems.

All EDKs are ready to run right out of the box. These complete reference design kits include all hardware, software, documentation, and are ready for manufacturing.

In addition, customers receive full support for the reference design along with a royalty-free license for the supplied source code. The license allows customers to sell the final object code as part of the completed product.

With AuthenTec's patented TruePrint® technology, extensive intellectual property integrated into the software, and unparalleled support, customers are assured of a rigorous, robust finger-scan biometric enabled product when the reference design is followed.

Sub-System Characteristics...

- 1.7 x 2.6 inches small
- Simple Biometric API
- Separate on/off control
- 5V @ 175 mA
- Stores 252 templates
- 2MB SDRAM
- 1MB flash
- Application code size 74KB Flash (production)
- RAM req’d=490KB Heap & Stack

Who Should Use...

The FingerLoc C5509™ DSP-based EDK is must have for anyone with an existing system that is considering adding biometric capabilities.

The EDK is ideal for:

- **Technology Evaluators** - The EDK can be used out-of-the-box to evaluate AuthenTec's superb TruePrint biometric performance.

- **Sales/Marketing Teams** - The EDK creates the quickest demo of your new product to your customers.

- **Software Developers** - The EDK provides a standard DSP emulator connection for state-of-the-art development capability.

Ready To Run...

The EDK includes a complete standalone biometric matching subsystem (MSS) plus application level source and matcher object code software. The application source code provides an excellent resource for integrators to quickly interface to existing security systems.

The MSS API library provides a simple interface to upgrade your security system to include the best in biometric technology. Since all matching is done by the MSS, your host processor is free to perform other tasks.

In addition to the MSS, the FingerLoc C5509 DSP-based EDK includes a UI board comprised of a keypad and a LCD display. This complete system is much more than just a reference design; it is an evaluation tool, a demonstration vehicle, and a development platform.
Documentation…
To make your job as easy as possible, the AuthenTec kit provides documentation for every aspect of system, software and hardware:
- Users’ Guide
- Programmer’s Reference Manual including Simple API examples
- Linkable OBJ code for matcher/extractor
- Source C code for interface layer
- Integrator’s Guide
- Development Application Note
- FingerLoc AF-S2 Sensor Manual
- FingerLoc AFS8500 Sensor Manual
- All Schematics & Parts Lists
- PC Board Layout Guidelines
- PWB Fabrication Files

UI Board…
Physical Dimensions
5.3 inches x 5.3 inches
Power Requirements
9V @ 150 mA (AC Adapter included)
7V to 35V input allowable
UI Processor
Microchip PIC 16C876
with code written in assembly
MSS Connectors
Provides all connections (power, IO & JTAG) required for MSS boards

This kit is compatible with 3rd party tools as below (not supplied)
- TI CodeComposer Development Environment
- Spectrum Digital XDS510PP Emulator

For more information contact AuthenTec or your local AuthenTec representative.