

EMBEDDED (STAND ALONE) FINGERPRINT MATCHING MODULES

Amtel Fingerchip™ • ODIS-AT77

Description

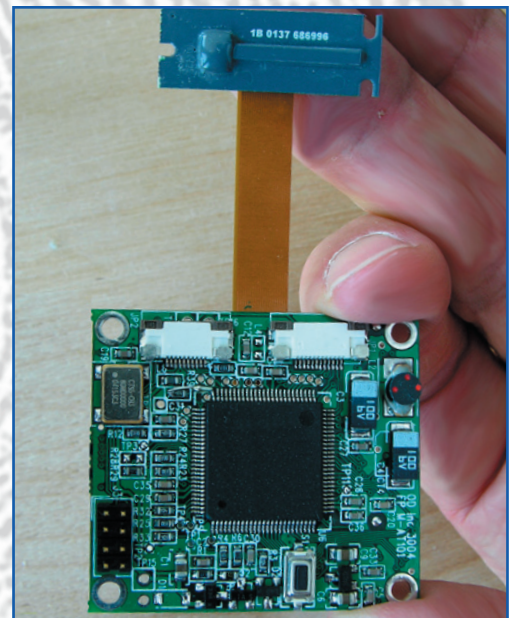
The ODIS-modules are embedded fingerprint-matching modules consisting of a reliable fingerprint sensor, an ARM-7 processor and memory for storage of up to 25 users templates plus tamper proof on-chip program code. The ODIS modules are a low cost, stand-alone fingerprint extracting and matching device enabling the OEM to integrate the module into virtually any locking system. When a match is confirmed, depending on the implementation desired, the module can simply drive a GPIO or drive an encrypted Serial line to our Trusted Device (TD). ODIS Modules are compact, measuring less than 1.5 inches square. Power is optimized to run an average consumer application (2 entries a day) for over a year on two AA batteries. Security levels are adjustable. Factory default is an amazing 1 in 10,000 false accepts at a rate of about 1% false rejects.

The ODIS modules are simple to install into any product. All modules are certified by FCC and CE. Modules can be purchased with a full finger bezel (suitable for a finished product), automatic power-on, and mounting bracket; we can add a cable connected to a low power locking system through either our Trusted Device or directly. So integration is simple, requiring only mechanical fit. No knowledge of electronics is needed when a full turnkey system kit is purchased.

The ODIS module is simple to use. All modules are pre-programmed with a User Interface (UI) with multi-color LED feedback to the user. See specifications for details.

The ODIS modules are fast. The fingerprint algorithm has been optimized for the small code space on the Arm 7 processor. The system powers on, extracts a template and matches the user in under 1 second for a 5 user database. At 25 users, typical matches occur in under 2 seconds.

The ODIS modules are expandable through the SDK. Integration with larger centralized, multi-node systems, can be accomplished with our Software Development Kit (SDK). Using the SDK, the integrator can take full control of the module and develop applications that control multi module systems, connect to PCs, networks or wireless systems, as well as controlling remote template storage for very large databases.



Atmel Fingerchip



2672 Bayshore Parkway Suite 900, Mountain View, CA 94043
Tel: 650.318.8050 Fax: 650.318.8060 www.odi.net

Embedded (Stand Alone)

Fingerprint Matching Modules:

Applications

- Doors: office and residential
- Garage door remote controls
- Car/Truck keyless entry
- Time/Attendance systems
- Access Control systems
- 1-time Lockers: Gyms, Airports
- Heavy equipment
- Residential alarms
- Medical cabinets and storage
- Safety deposit boxes
- Jewelry storage boxes
- Home and hotel room safes
- Tool Cabinets
- TV remote controls
- Other uses...

Specifications

- Match Time: <1 second for up to 5 users, typical. Up to 25 users.
- Power: <300 mW typical for 1 second match (3.3VDC, 75ma). 6VDC standard or 3.3VDC optional.
- Interface: RS-232/RS-485.
- Match to External Templates: Yes.
- I/O: Pre-configured:
 - Trusted device opening
 - Solenoid opening
 - Power-on switch
 - Remote LED's
 - 2 GPIO (use SDK)
- User Interface (UI): Pre-configured with LED feedback
 - Administrator (2)
 - Access OK, Lock Open
 - Access Denied
 - System Lockout
 - Power On
 - Shut down
 - Enrollment (register)
 - Delete ALL users
 - Low Battery Warning
 - Tamper high security mode
- Size: 1.4" x 1.5" x ~0.3" with universal mount.
- Connection options schematics available upon request.

Available modules:

- Atmel FingerChip™ fingerprint sensor, 500DPI, 8-bit gray images, 280 pixels wide.

Options:

- Finished Bezel - with full finger bezel, suitable for finished product with mounting plate.
- TD - serialized, encrypted Trusted Device with cable (FPC) up to 3 meters.
- Full SDK for expanded applications.

