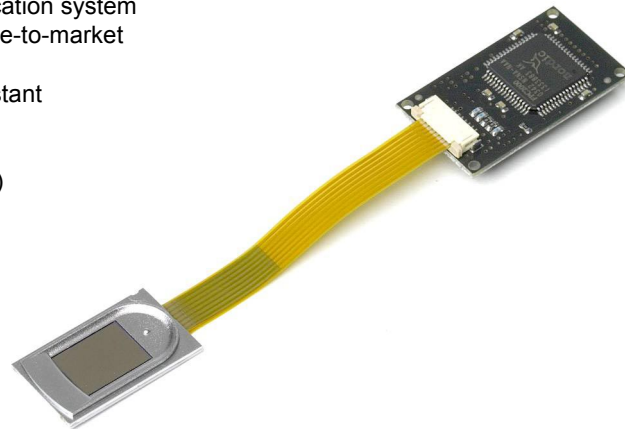


## Features

- Embedded stand-alone fingerprint identification system
- Extremely easy to integrate minimizing time-to-market
- Small size
- Thick protective sensor coating, ESD resistant
- One-To-One verification mode
- One-To-Many identification mode
- Onboard template storage (188 templates)
- Straightforward serial command interface
- Download/upload template functionality

## Application examples

- Access control systems
- Time & Attendance
- Locks, safes



## General description

The FPC-AM module acts as a biometric sub-system with onboard template storage.

Integrating the FPC-AM module into a product drastically reduces time-to-market with its easy-to-integrate serial command interface and proven robust fingerprint sensor solution.

FPC-AM features the rugged fingerprint sensor, FPC1011C with its unique thick protective coating, which prevents the user from directly touching the CMOS circuitry. The coating also protects the sensor against ESD well above 15 kV and everyday wear-and-tear. The FPC1011C has an acknowledged very high image quality with a bit depth of 256 values per pixel.

FPC-AM can easily be integrated into virtually any application and be controlled by a host sending basic commands for enrolment and verification via the serial interface. FPC-AM comes preloaded with software and is ready to use at delivery. Fingerprint templates are automatically created and stored in the internal flash memory. Templates used for verification can also be imported from an external storage, e.g. central database, smart card or portable flash memory.

FPC-AM can be connected to a host via a board-to-board connector or by using a standard ribbon cable.

## Quick reference data

PARAMETER	VALUE
Dimension (L x W x T)	40 x 23 x 6 mm (Processor board)
Number of templates	188
Verification time (1:1)	0.5 s (typical)
Identification time (1:100)	1 s (typical)
Enrolment time	5 s (typical)
False-Rejection-Rate (FRR)	Adjustable
False-Acceptance-Rate (FAR)	Adjustable
Interface	Serial UART
Supply voltage	3.3 VDC
Supply current	Active: 100 mA, Power save mode: 10 mA, Sleep mode: 30 $\mu$ A
Active sensing area	10.64 x 14.00 mm
Pixel resolution	256 gray scale values (8 bit)
ESD protection	> 15 kV
Wear-and-tear	> 1 million wear cycles