



FINGERPRINTS

BIOMETRIC TOUCH SOLUTION FOR SMART CARDS

FPC 1300-SERIES

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The smart card product solution includes fingerprint sensor hardware, algorithms and software optimized for integration into smart cards. Compact size and ultra-low power consumption makes it optimal to use in contactless or contact based applications.

The proven fingerprint recognition algorithm, together with the ultra-thin touch fingerprint sensors FPC1300-series performs fast fingerprint matching with highest security level and optimal user convenience.

A range of demonstration and development kits together with tools and smart packaging ensures a smooth development all the way, from early prototyping into mass-market production.

FEATURES

- Complete fingerprint sensor module/sensor solution
- Optimized total card costs
- **FPC OneTouch®** instant wakeup functionality
- **FPC 360Touch®** recognize a finger from any angle
- Industry leading matching algorithm with self-learning capability **FPC EvoTouch™**
- **FPC TouchNroll™** lets the user enroll with a few quick touches

SYSTEM

- FPC1320 and FPC1321 fingerprint sensors. FPC1320 is used for initial evaluation whereas FPC1321, has a smaller footprint and lower current consumption during image capture.
- Ultra thin design optimized for smart card integration
- ISO compliance on card level
- Compact and easy to integrate
- Flat top surface, attractive appearance
- Superior 3D image quality with 508 dpi and 256 true gray scale values in every pixel
- Robust protective coating capable of more than 10 million finger placements
- Full ESD protection more than $\pm 15\text{kV}$
- Ultra-low power consumption ideal for contactless use
- Fast power up to do image capture $< 1\text{ ms}$
- 1.8/3.3 Volt operation
- High speed SPI interface

SOFTWARE

- Designed for systems that have limited current and processing power
- Easy-to-integrate API interface
- Proven robust biometric performance
- One software interface for all supported microprocessor configurations
- Support for match on Secure Element and/or MCU
- Enrollment and verify function
- Fast verification time $< 1\text{ sec}$
- Template manager
- Updates every quarter

TOOLS

- DemoKit
- EvaluationKit
- DevelopmentKit
- Image Collection Tool
- Production Test Tool

PACKAGING

- Solderable LGA
- T-shape™ module