

FPC1155 Touch Fingerprint Sensor

Product Sheet

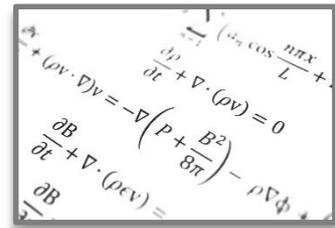
- Elongated form factor recommended for front or rear-mounted integration
- Optimal combination of sensor size and performance
- Customization of sensor module possible
- Compact and easy to integrate
- Outstanding system performance
- Robust protective coating capable of more than 10 million finger placements
- Intelligent programmable wake up functionality
- Flexible design with different outlines
- Customizable designs including color options
- Bezel optional



FPC1155 customized algorithm

The most advanced algorithm to date including:

- Feature-space augmentation and statistical representation
- Hybrid and multi-template matching
- Impairment correction
- Improved sampling and combining
- Intelligent enrolment and enrolment combining
- Resolution enhancement



Front-mounted



Rear-mounted



Navigation



Unlock



FINGERPRINTS

General description

FPC1155 is an evolution of FPC1150, providing increased performance and flexibility, which is suited for front or rear-mounted button integration with navigation. The elongated form allows 360-degree rotation of the finger and unrivaled sensitivity that enables maximum performance without compromising on design aesthetics or user experience. FPC1155 offers excellent 3D pixel sensing

technology that reads virtually any finger: dry or wet. With a robust surface coating, it is capable of more than 10 million finger placements and withstanding daily wear-and-tear. Touch sensor technology combined with the small size of FPC1155 offers secure and convenient user verification, while a Guided Enrolment software increases the accuracy of captured images for an improved user experience.

Recommended host system specifications for Android integration:

- Android version: 4.4, support for future Android versions will be added continuously
- CPU: Cortex A15 or equivalent @2.3GHz with floating-point and NEON extensions enabled
- CPU (minimum): CortexA7 or equivalent @ 1.3GHz with floating-point extensions enabled
- RAM: 8MB during enroll and fingerprint verification

Quick reference data – Touch Fingerprints Sensor FPC1155

PARAMETER	DESCRIPTION	VALUE	UNIT
Interface	SPI	4	pin
Supply voltage	VDD	1.8	V
Supply current	Image capture	< 6	mA
Supply current Sleep Mode	With finger detection	< 6	µA
Supply current Deep Sleep	Typical	< 0.5	µA
ESD protection	IEC61000-4-2, level X, air	±30	kV
Wear-and-tear	Finger placements	>10 million	times
Operating temperature		- 40 to +85	°C

Contact info

Email: sales@fingerprints.com

Web: www.fingerprints.com

