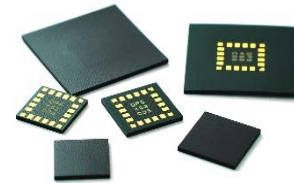# FPC1022 Touch Fingerprint Sensor

Product Sheet

- FPC OneTouch® intelligent programmable wake-up functionality
- Squared form factor recommended for rear-mounted integration for mobile devices
- Optimal combination of sensor size and performance
- Compact and easy to integrate
- Robust protective coating capable of more than 10 million finger placements
- Ultra-low power consumption
- Customizable module and LGA including colour options
- Navigation feature
- FPC customized algorithm

General description

The FPC1022 is a miniature touch fingerprint sensor with ultra-low power consumption that is recommended for rear-mounted button integration on mobile devices. The small-squared sensor allows 360-degree rotation of the finger and unrivaled sensitivity that enables maximum performance without compromising on design aesthetics or user experience. FPC1022 offers a navigation feature with excellent 3D pixel - sensing technology that reads virtually any finger: dry or wet. With a protective surface coating, it is capable of more than 10 million finger placements and withstanding daily wear-and-tear. FPC OneTouch® sensor technology together with Guided Enrolment software provides secure verification and an optimal user experience.

Quick reference data – Touch Fingerprint Sensor FPC1022

PARAMETER	DESCRIPTION	VALUE	UNIT
Interface	SPI	4+1	pin
Supply voltage	VDD voltage, typical	1.8	V
Supply current	Image capture, typical	5	mA
Supply current Sleep Mode	Typical (with finger detection)	2	µA
Pixel matrix	Pixels per inch (256 greyscale 8-bit)	508	ppi
ESD protection	IEC61000-4-2, level X , air discharge	±30	kV
Wear-and-tear	No of wear cycles at 0.6N	>10 million	times
Operating temperature		-40 to +85	°C

Recommended host system spec for Android integration:

- Android version: 5.0, 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

Contact info

Email: sales@fingerprints.com
Web: www.fingerprints.com

Product information is subject to change without notice.

WWW.FINGERPRINTS.COM