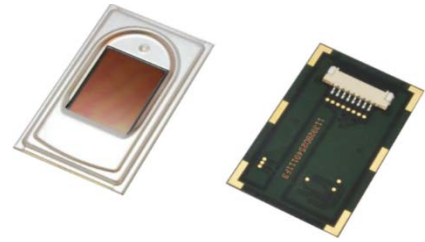


FPC1011F3 Area Fingerprint Sensor

Product Sheet

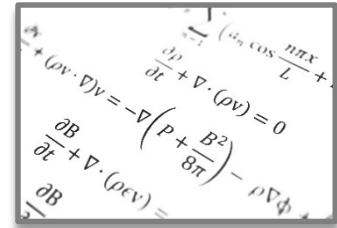
Area Fingerprint Sensor FPC1011F3

- Robust scratch resistant protective surface coating
- Superior image quality - 256 true grey scale values, 3D imaging
- Ergonomic frame for optimized finger guidance
- High speed SPI
- New ultra-thin flex film connector
- 2.5 to 3.3V operation
- Extended ESD range > ±30
- Protective coating withstands more than 10 million finger placements



Fingerprint Recognition Algorithm

- Proven algorithm supplied to millions of users
- Top ranked in independent tests (NIST)
- Easy integration with modular architecture



Features



Computer peripherals



Time & attendance



Medical equipment
and storage



Wireless devices



FINGERPRINTS

General description

FPC1011F3 is a new compact CMOS fingerprint sensor with several significant advantages. FPC1011F3 delivers superior image quality, with 256 grey scale values in every single pixel.

The reflective measurement method sends an electrical signal via the frame directly into the finger. This technique enables the use of an unbeatably hard and thick protective sensor surface coating. The sensor with its 3D pixel sensing technology can read virtually any finger; dry or wet.

Thanks to the robust surface coating, FPC1011F3 is protected against ESD above 30 kV, as well as scratches, impact and daily wear-and-tear. The FPC1011F3 includes a designed micro-ergonomic guidance frame, supporting easy integration, simplifying proper fingerprint guidance and hence improving algorithm performance.

The FPC1011F3 sensor also includes an ultra-thin flex film connector, supporting a high speed 4 pin serial SPI interface.

Quick reference data – Area Fingerprint Sensor FPC1011F3

PARAMETER	DESCRIPTION	VALUE	UNIT
Interface	Flex connector, 4 pin SPI	8	pin
Supply voltage	DC voltage, typical	2.5 – 3.3	V
Supply current	Typical at 3.3V, 4MHz and RT (room temp)	7	mA
Supply current Sleep Mode	Power down, typical	10	µA
Clock frequency	Serial SPI	32	MHz
Read out speed	Serial SPI	4	Mpixel/s
LGA size	Pixel matrix	10.64 x 14.00	mm
Size sensing array	Pixel matrix (363 dpi)	152 x 200	pixels
Pixel resolution	256 grey scale values	8	bit
ESD protection	IEC61000-4-2, level X, air discharge	±30	kV
Wear-and-tear	No of wear cycles at 0.6 N	>10 million	times

Contact info

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