FINGERPRINTS

MAKE THINGS GENIUS WITH FPC ACCESS SENSOR SERIES

FPC1024 / FPC1025

FINGERPRINTS' BIOMETRIC TOUCH SENSORS

Fingerprints touch sensor series for Access comes in round shape in black color supporting a range of design ID's. Optimized for integration into various types of consumer electronic devices and applications.

The compact size and low power consumption make it attractive to use in battery-powered units. The robust protective coating is capable of more than 10 million finger placements. With our technology we are able to both capture the depth of the valley and ridges in 3D, delivering a high-quality image. This high quality image enables you to get the best biometric accuracy, giving you a system that can excel in high security level as well as smooth user convenience.

SENSOR VARIANTS: FPC1024 round / FPC1025 round

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BENEFITS

- Complete fingerprint sensor module
- Black surface for an elegant look when integrated
- Thin and compact makes it easy to integrate
- Mechanical, robust design, water resistant for long life usage
- Low power consumption, ideal for battery powered applications
- Fast and accurate image capture enabling convenient user experience
- Excellent fingerprint biometric performance

FEATURES

- Sensor type: Capacitive
- Interface: SPI
- Sensor pixels:
  - 192 x 192 pixels / 508 dpi (FPC1024)
  - 160 x 160 pixels / 508 dpi (FPC1025)
- 2 different variants:
  - Round (FPC1024) dimensions diameter: 16 mm (Black)
  - Round (FPC1025) dimensions diameter: 14 mm (Black)
- Operating temperature: -40 to +85°C
- ESD protection: ±30 kV
- Wear-and-tear: More than 10 million cycles
- Scratch resistance: Pencil hardness: 4H
- Water resistant (IP67)
- Supply voltage: 1.8/3.3 V operation
- Power consumption (FPC1024) active mode (capture): 6 mA
- Power consumption (FPC1025) active mode (capture): 5 mA
- Power consumption deep sleep: 1 µA
- Image capture time: (FPC1024) below 60 ms and (FPC1025) below 50 ms
- Image quality with 256 true grey scale values in every pixel