



FINGERPRINTS

# MAKE THINGS GENIUS WITH FPC ACCESS SENSOR SERIES

FPC1020 / FPC1024 / FPC1025

## FINGERPRINTS' BIOMETRIC TOUCH SENSORS

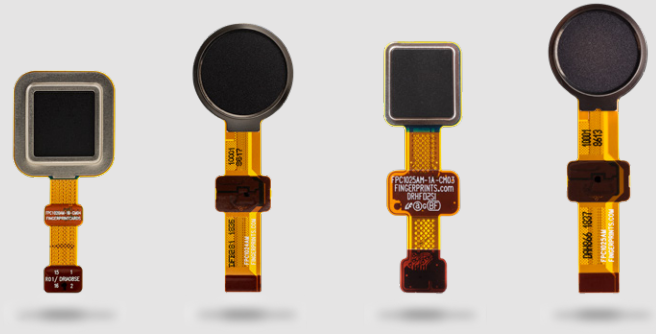
Fingerprints touch sensor series for Access comes in different shapes supporting a range of design ID's. optimized for integration into various types of consumer electronic devices and applications.

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.

# FPC ACCESS SENSOR SERIES

## SENSOR VARIANTS

- > FPC1020 – square
- > FPC1024 – round
- > FPC1025 – square and round



## BENEFITS

- > Complete fingerprint sensor module
- > Black matt 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 (FPC 1020, FPC 1024)
  - 160 x 160 pixels / 508 dpi (FPC 1025)
- > 4 different variants:
  - Square (FPC 1020) dimensions: 14 x 14 mm
  - Square (FPC 1025) dimensions: 12 x 12 mm
  - Round (FPC 1024) dimensions diameter: 16 mm
  - Round (FPC 1025) dimensions diameter: 14 mm
- > 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 (FPC 1020) & (FPC 1024) active mode (capture): 6 mA
- > Power consumption (FPC 1025) active mode (capture): 5 mA
- > Power consumption deep sleep: 1 µA
- > Image capture time: (FPC1020) & (FPC1024) below 60 ms and (FPC1025) below 50 ms
- > Image quality with 256 true grey scale values in every pixel