FPC1200 Series Touch Fingerprint Sensor

Product Sheet

- Sensor mounted under glass or ceramic
- Extended industrial design possibilities
- Seamless integration with design aesthetics
- Smoother look-and-feel
- Robust coating capable of more than 10 million finger placements
- Ultra-low power consumption
- FPC OneTouch® wake-up functionality
- Square or rectangular outline
- Range of colour options available
- Recommended for front or side mounting

General description

The FPC touch fingerprint sensors in the FPC1200 series are designed exclusively to be mounted under a layer of glass or ceramics. The FPC1200 series of touch fingerprint sensors further integrates FPC OneTouch® sensors in the industrial design process, allowing for the latest design trends to be realized while maintaining industry-leading levels of biometric performance and security.

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

Quick reference data – Touch Fingerprint Sensor FPC1200 Series

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>DESCRIPTION</th>
<th>VALUE</th>
<th>UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interface</td>
<td>SPI</td>
<td>4</td>
<td>pin</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>VDD voltage, typical</td>
<td>1.8</td>
<td>V</td>
</tr>
<tr>
<td>Supply current</td>
<td>Image capture, typical</td>
<td>5</td>
<td>mA</td>
</tr>
<tr>
<td>Supply current Sleep Mode</td>
<td>Typical (with finger detection)</td>
<td>2</td>
<td>µA</td>
</tr>
<tr>
<td>ESD protection</td>
<td>IEC61000-4-2, level X, air discharge</td>
<td>±30</td>
<td>kV</td>
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<tr>
<td>Wear-and-tear</td>
<td>No of finger placements at 0.6N</td>
<td>&gt;10 million</td>
<td>times</td>
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<tr>
<td>Operating temperature</td>
<td></td>
<td>-40 to +85</td>
<td>°C</td>
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