Touch panel technology is closely linked to our daily lives. Smartphones, Tablets and many other electronic devices are all embedded with touch screen function. The 1st generation touch panel technology, “resistive touch panel”, has relatively poor durability, sensitivity and transmittance. This together with the growing demand for multi-touch functions has caused the growing dominance of a new technology – Projected Capacitive Touch Panel.

To capture this surging market, Solomon Systech proudly presents a series of “single chip” Projected Capacitive Touch Panel Controllers with true multi-touch support – capable of driving Full HD capacitive touch panels of up to 13.6”. Solomon Systech provides controllers supporting mutual-capacitance and self-capacitance sensing schemes. Besides typical types of capacitive touch panels, i.e. GG, GFF, GF2, OGS; our controllers also support single layer ITO multi-touch panels. These easy-to-use touch panel controllers, with excellent cost performance, are the ideal solutions for smart applications.

Applications: Smartphones, Tablets, etc.

Key Features

- Support up to 10-finger multi-touch input
- Support Full HD panels of up to 13.6”
- Support various projected capacitive touch panels: OGS, SITO, DITO, Film-Film, etc.
- Support >4mm thick lens
- Support ITO or Metal Mesh. High ITO flexibility
- Excellent sensitivity, support 3mm passive pen and glove
- Excellent touch linearity
- Highly integrated single chip with 16-bit MCU
- Power saving
- Excellent waterproof capability
- Support high pressure touch
- Highly reliable under harsh noise conditions
- Drive & sense channels for button emulation
**Selection Guide**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Sensing Scheme</th>
<th>Sense x Drive / Button</th>
<th>Self Cap</th>
<th>Points</th>
<th>External E2PROM</th>
<th>Interface</th>
<th>Max. Panel Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSD2543</td>
<td>Mutual Capacitance</td>
<td>44S x 30D</td>
<td>N/A</td>
<td>10</td>
<td>Yes</td>
<td>IIC</td>
<td>13.6&quot;</td>
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<td>SSD2533</td>
<td>Mutual Capacitance</td>
<td>38S x 30D</td>
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<td>Yes</td>
<td>IIC, USB</td>
<td>11&quot;</td>
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<tr>
<td>SSD2532</td>
<td>Mutual Capacitance</td>
<td>12S x 21D</td>
<td>N/A</td>
<td>10</td>
<td>N/A</td>
<td>IIC</td>
<td>8&quot;</td>
</tr>
<tr>
<td>SSD2542</td>
<td>Mutual Capacitance</td>
<td>12S x 21D</td>
<td>N/A</td>
<td>10</td>
<td>N/A</td>
<td>IIC</td>
<td>5&quot;</td>
</tr>
<tr>
<td>SSD2528A</td>
<td>Self Capacitance</td>
<td>40</td>
<td>N/A</td>
<td>N/A</td>
<td>Yes</td>
<td>IIC</td>
<td>N/A</td>
</tr>
</tbody>
</table>

*Sensing Scheme: Mutual Capacitance

*SSD2528A is self capacitance touch controller, and has sensing pins only.

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