

PCAP TOUCH

NOT ONLY FOR SMARTPHONES



'The PCAP input system with multitouch made out of glass/film is as easy to use as a smartphone.'

Use the projected capacitive touchscreen (PCAP) front made out of glass/film to make input just as easy as with a smartphone.

The benign optical bonding technology along with intricate process know-how together with our established partners allow an unmatched image quality with reliable touch. To know more of the advantages we offer you to taste and play with our developer kit.

Advantages

- Excellent transmittance > 90 %
- Multitouch finger gestures
- Operating temperatures from -20°C up to +70°C
- Chip on flex tail with I²C
- Anti reflective coating
- Reliable touch even with liquid or gloves on surface
- Better impact resistance (chemically strengthened 6H glass and optical bonding with proprietary index matched copolymer)
- Patented backlight technology for enriched aesthetics
- Dimensions of 1-60 inch in the diagonal

Chip on flex tail

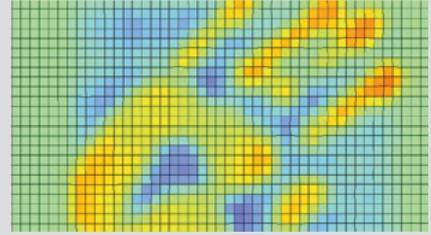


Optical bonding – better transmittance

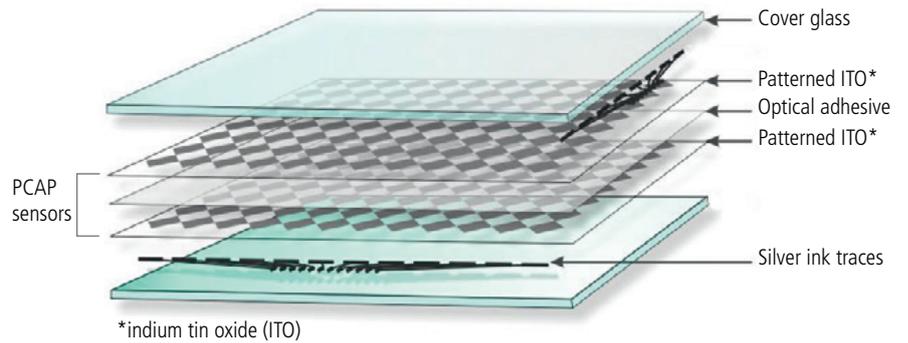


with optical bonding/without optical bonding

Multitouch function



PCAP module: typical layer build-up



Projected capacitive touch screen sensors use two perpendicular layers of conductive coatings where in vertical and horizontal patterned ITO on a glass to glass or film to glass configuration. When a finger is placed on the glass screen it changes the mutual capacitance of the ITO layer. The controller scans each cell of the horizontal and vertical grid (ITO) with a high frequency signal, identifying any changes in mutual capacitance between adjacent cells as touch locations.

Locations:

Algra
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Rigistrasse 1
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Patterning of ITO layer



Cleaning and etching of ITO layer



Lasering – selective removal of silver ink traces



Autoclave for optical bonding



Developer kit