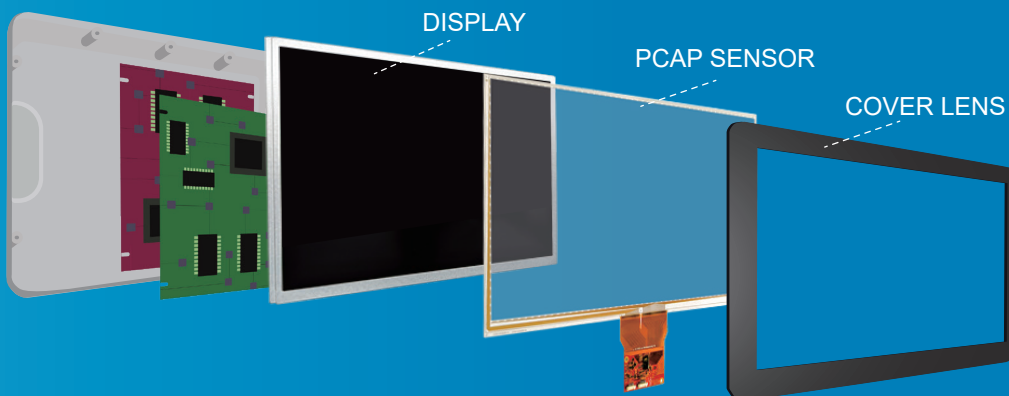




Touch Display Module

Derived from existing PCAP and RTP touch screens, Higgstec offers integrated product - TDM (Touch Display Module), through its in-house bonding capabilities. The customer may choose to consign the displays or put Higgstec in charge of the total solution.

Whether the displays come with or without the metal bezel, Higgstec is able to provide the right solution from Direct Bonding (with OCA/ OCR) and Air Bonding. Our TDM products have been in mass production for IPC, medical, marine, automotive and other outdoor applications.



Benefits of Higgstec TDM Direct Bonding

OCA Direct Bonding

- Suitable for display -without bezel
- Suitable for outdoor applications

OCR Direct Bonding

- Suitable for display with bezel and without bezel
- OCR material has cushion-like trait that could help to relieve pressure which can prevent yellowish screen/Mura effect

Customized Design

- Able to tailor bonding solution if customer has specific display and housing mechanical design



Contrast enhancement (lower reflection, higher brightness, better contrast ratio)

Better impact test result and durability

Anti-fog (prevent condensation between touch screen and display)

 TOUCH PANEL SPECIFICATION

Item	Direct Bonding		Air Bonding
	OCA	OCR	Adhesive
Type	Silicone / Acrylic	Silicone	--
Size Range (Max)	≤ 18.5"	≤ 32"	≤ 65"
Optical			
Reflection Rate (not including surface)	≤ 0.5%	≤ 0.5%	R≈ 9%
Display contrast	Better	Better	Poorer
Mechanical			
Display Type	Non Bezel	No Restriction	No Restriction
Impact Test	Better	Better	Poorer
Reliability of Bonding Material			
Condensation between Touch & Display	No	No	Yes
Operation Temperature / Humidity	-30 ~ +85°C / 20%RH ~ 85%RH		Follow Display Spec
Storage Temperature / Humidity	-40 ~ +85°C / 20%RH ~ 90%RH		Follow Display Spec
Daylight Exposure	Comply with ISO 4892-2 Cycle 1 * 1,000hrs		
Compliance	CE, FCC, RoHS, REACH		
Warranty	2-year limited warranty		
Standard AD Board			
Interface	eDP \ LVDS...		
Input voltage	Typical 12V		