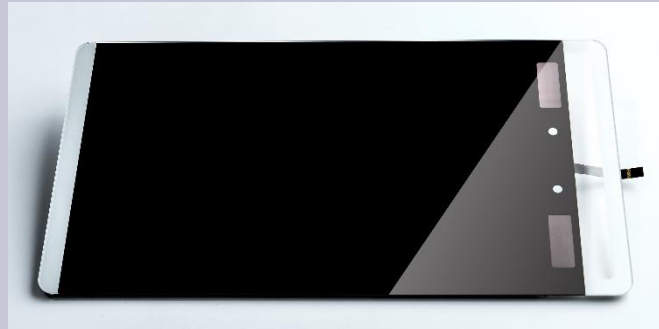




Dignity Electronics Touch Display Module

Projected Capacitive LCM Series



Product Size Range

Standard: 4" – 15"
Custom: 4" – 86"



Customization Options

Full range of cover lens, touch
sensor and display options



Product Support

Firmware tuning and
software support provided

Product Overview

Dignity offers a wide range of both standard and custom developed Projected Capacitive (PCAP) touch liquid crystal display modules, with both commercial and consumer displays available. Combining our high performance PCAP multitouch technology with a range of LCD displays to offer customers a turnkey solution that reduces development cost and lead time while offering superior design flexibility and customizability. Our standard line of product is aimed primarily at the industrial control and instrumentation markets, while we provide custom modules for a range of applications, including gaming, retail solutions and office/home automation.

Product Applications



Office
Automation



Communication
& Education



Retail &
POS



Industrial &
Instrumentation



Medical
Equipment



Kiosk &
POI

Features

- Supports up to 10mm cover glass for enhanced durability
- Highly customizable cover lens – silk screening, cut outs, enhancements, etc.
- Water rejection and gloved touch supported (nitrile, latex, vinyl, cotton, etc.)
- Optical bonding available for enhanced module performance and lifespan
- Wide range of LCD suppliers and specifications to meet project requirements: from super-high brightness to industrial and medical panels.

Product Customization

<i>Parameter</i>	<i>Options & Notes</i>
Screen Size (Diagonal inches)	4" – 86"
Product Construction	GG / G1F / GFF / PG
Integration	Tape Bonding / Optical Bonding (OCA & LOCA)
<i>Cover Lens</i>	
Cover Lens Thickness	0.55mm – 10mm
Cover Lens Material	CS Glass, Gorilla Glass, Heat Tempered, Plastic, etc.
Additional Options	Silk screening, logos, cut outs, colored glass, etc.
<i>Touch Controller & Interface</i>	
Controller Location	COB / COF
Controller Type	Silicon Works / EETI / Customer Supplied / As Specified
Interface	I2C, USB, RS232
Operating System	Windows XP, 7-10, Linux, iOS, Android
Performance Options	10-50 touch points, palm rejection, water rejection, gloved use, gestural controls, active stylus, etc.
<i>Product Enhancements</i>	
Optical	Anti-Glare / Anti-Reflection / Mirror Finish / Dead Front
Others	Anti-Fingerprint / Anti-Shatter Film / Hard Coat
EMI Resistance	Metal Mesh / Firmware Tuning / EMI Filters

Product Specifications - Touch

<i>Item</i>	<i>Specifications</i>
<i>General</i>	
Type	Projected Capacitive Touch Panel
Input Method	Finger, Active Stylus, Gloved Touch (up to 50 touch points)
Hardness	≥ 7H / ≥ 3H (PG products)
<i>Durability</i>	
Warranty	Standard Products: 1.5 years / Custom: As per application
Tapping	10 Million
Sliding	1 Million
<i>Electrical</i>	
Operating Voltage	2.5 – 5V
Response Time	≤ 25 ms
<i>Optical</i>	
Transmittance	≥85%
Haze	≤2%
<i>Environmental</i>	
Storage Temp	-30°C ~ +70°C
Operating Temp	-20°C ~ +60°C
Relative Humidity	10 – 90% RH Non-Condensing

Product Specifications - LCD

<i>Item</i>	<i>Specifications</i>
<i>General</i>	
Type	TFT-LCD (commercial and consumer models available)
Maximum Resolution	As per customer requirement
Pixel Pitch	As specified
Number of Colors	As specified
Lifespan	20,000 – 100,000 hours
<i>Durability</i>	
Warranty	Standard Products: 1.5 years / Custom: As per application
<i>Electrical</i>	
Operating Voltage	2.5 – 5V
Power Consumption	As per LCD specifications
<i>Optical</i>	
Brightness (min to max)	200 – 1500 cd/m ²
Contrast (CEN)	500:1 – 1000:1 (or as specified)
<i>Environmental (standard – actual values dependent on LCD specs)</i>	
Storage Temp	-30°C ~ +70°C
Operating Temp	-20°C ~ +60°C
Relative Humidity	10 – 90% RH Non-Condensing

Standard Touch Display Part Numbers & Descriptions

<i>Part Number</i>	<i>Screen Size (in)</i>	<i>Screen Ratio</i>	<i>Resolution</i>	<i>Luminance (cd/m²)</i>	<i>Active Area (mm)</i>	<i>Viewing Angle (U/D/L/R)</i>
TPC2550	4.3	16:9	480 x 272	300	95.04 x 53.86	70/50/70/70
TPC2551	5	16:10	800 x 480	250	108 x 64.8	50/70/70/70
TPC2552	5.7	4:3	320 x 240	800	115.2 x 86.4	70/70/80/80
TPC2553	6.5	4:3	640 x 480	800	132.48 x 99.36	70/70/80/80
TPC2557	7	16:10	800 x 480	600	152.4 x 91.44	80/80/80/80
TPC2556	7	16:9	1024 x 600	320	153.6 x 90.0	70/75/75/75
TPC2555	7	16:9	800 x 480	250	154.08 x 85.92	60/70/70/70
TPC2567	7	16:10	1280 x 800	400	149.76 x 93.6	80/80/80/80
TPC2558	8	4:3	800 x 600	250	162.0 x 121.5	50/70/70/70
TPC2559	8	16:9	800 x 480	450	176.64 x 99.36	50/70/70/70
TPC2560	8.4	4:3	800 x 600	450	170.4 x 127.8	80/60/80/80
TPC2561	10.1	16:10	1280 x 800	500	216.96 x 135.6	85/85/85/85
TPC2562	10.1	16:9	1024 x 600	350	222.72 x 125.28	60/60/75/75
TPC2563	10.4	4:3	1024 x 768	500	210.4 x 157.8	88/88/88/88
TPC2565	12.1	4:3	1024 x 768	500	245.76 x 184.32	80/80/70/70
TPC3231	12.1	16:10	1280 x 800	450	261.1 x 163.2	85/85/85/85
TPC2566	15	4:3	1024 x 768	300	304.128 x 228	80/80/80/80

To find out more about our range of standard and custom touch solutions, or to consult on a project, please visit www.dignity.com.cn or contact the sales office nearest you.

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