

PCAP Displays (Projected Capacitive)

INNOVATIVE TOUCH PANEL SOLUTIONS

Frequently the primary human interface with a display is touch rather than using a keyboard or mouse. This trend is quickly being adopted not just in consumer display and electronic applications, but also in industrial and medical applications.

Tianma NLT America offers PCAP display solutions from both Tianma Microelectronics and NLT Technologies, Ltd.

PROJECTED CAPACITIVE – PCAP TOUCH PANEL

PCAP display modules offer the increased durability, smooth operator interface, multi-touch functionality and clear image quality required for use in touch-panel displays designed for industrial applications, such as factory automation and test and measurement, as well as medical equipment. PCAP touch is usable with Windows 8 and capable of multi-touch functionality.

TIANMA MICROELECTRONICS PCAP SOLUTIONS

Currently Tianma offers eight standard PCAP products ranging in size from 3.5-inch to 7-inch

Size (In)	Part #	Resolution (Pixels)	NITS	Contrast Ratio	Viewing Angle (up/down) (left/right)	Operating Temp	Panel Mode	Interface
3.5" QVGA	TM035KVHG01	320 x 240	400	500:1	60/70; 70/70	+70°C/-20°C	Transmissive	RGB 24 bits/CCIR66/601
4.3" WQVGA	TM043NVHG01	480 x 272	200	500:1	70/50; 70/70	+70°C/-20°C	Transmissive	24-bit RGB/CTP: I2C
5.0" WVGA	TM050RVHG01	800 x 480	250	600:1	50/70; 70/70	+70°C/-20°C	Transmissive	24-bit RGB/CTP: 12C
5.7" QVGA	TM057KVHG01	320 x 240	340	500:1	70/60; 70/70	+70°C/-20°C	Transmissive	RGB 18-bit/CTP: I2C
5.7" VGA	TM057QVHG01	640 x 480	300	500:1	70/60; 70/70	+70°C/-20°C	Transmissive	RGB 18-bit
7.0" WVGA	TM070RVHG01	800 x 480	300	500:1	60/70; 70/70	+70°C/-20°C	Transmissive	24-bit RGB/CTP: 12C
7.0" WVGA	TM070RVHG04	800 x 480	1000	500:1	60/70; 70/70	+70°C/-20°C	Transmissive	24-bit RGB/CTP: 12C
7.0" WSVGA	TM070DVHG01	1024 x 600	270	500:1	70/75; 75/75	+70°C/-20°C	Transmissive	LVDS 40-pin/CTP: 12C

NLT TECHNOLOGIES PCAP SOLUTIONS

NLT Technologies offers displays using PCAP technology with multiple value-add options such as surface films, cover glass and optical bonding. As part of its total cost of ownership (TCO) strategy, which includes long-term product support, NLT offers customers the LCD module with touch panel and touch panel controller as part of the PCAP LCD Module set.

Part Number Adder by Touch Option

Display Size/ Resolution	Base P/N	PCAP + Air Gap				PCAP + Optical Bond			
		Clear (No Film)	Clear w/ AFP	AR Film	AG + AFP	Clear (No Film)	Clear w/ AFP	AR Film	AG + AFP
6.5" VGA	NL6448BC20-30D								
6.5" XGA	NL10276BC13-01								
7" WVGA	NL8048BC19-02								
7" WVGA	NL8048AC19-13								
7" WVGA	NLB070WV01L-01								
8.4" VGA	NL6448BC26-26D								
8.4" SVGA	NL8060BC21-11D								
9" WVGA	NL8048BC24-09D	AA	AB	AC	AD	JA	JB	JC	JD
9" WVGA	NL8048BC24-12D								
10.4" SVGA	NL8060BC26-35D								
10.4" XGA	NL10276BC20-18D								
10.6" WXGA	NL12876AC18-03D								
12.1" XGA	NL10276BC24-21								
12.1" WXGA	NL12880BC20-05D								
15" XGA	NL10276BC30-34D								
15" XGA	NLB150XG01L-01								
15" XGA	NLB150XG02L-01								
15.3" WXGA	NL12876BC26-32D								
15.6" WXGA	NL13676AC25-01D								
19.0"	NL128102AC29-17								

Part Number Adder by Touch Option

Display Size/ Resolution	Base P/N	PCAP + Air Gap + Cover Glass				PCAP + Optical Bond + Cover Glass			
		Clear (No Film)	Clear w/ AFP	AR Film	AG + AFP	Clear (No Film)	Clear w/ AFP	AR Film	AG + AFP
6.5" VGA	NL6448BC20-30D								
6.5" XGA	NL10276BC13-01								
7" WVGA	NL8048BC19-02								
7" WVGA	NL8048AC19-13								
7" WVGA	NLB070WV01L-01								
8.4" VGA	NL6448BC26-26D								
8.4" SVGA	NL8060BC21-11D								
9" WVGA	NL8048BC24-09D	BA	BB	BC	BD	KA	KB	KC	KD
9" WVGA	NL8048BC24-12D								
10.4" SVGA	NL8060BC26-35D								
10.4" XGA	NL10276BC20-18D								
10.6" WXGA	NL12876AC18-03D								
12.1" XGA	NL10276BC24-21								
12.1" WXGA	NL12880BC20-05D								
15" XGA	NL10276BC30-34D								
15" XGA	NLB150XG01L-01								
15" XGA	NLB150XG02L-01								
15.3" WXGA	NL12876BC26-32D								
15.6" WXGA	NL13676AC25-01D								
19.0"	NL128102AC29-17								

AFP: Anti-fingerprint AR: Anti-reflective AG: Anti-glare For example: P/N NL10276BC13-01JC would designate a 6.5" LCD with PCAP, optical bonding and AR film

Note: Some parts have a high bright option with PCAP available. Contact Tianma NLT for more information.

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