

# TouchPlus<sup>®</sup>

## Plus-Film / Plus-Glass



### Product Overview

General Touch possess two Projected Capacitive (PCAP) technologies. One is Plus-Film touchscreen which have two ITO film substrates and cover glass. The other is Plus-glass touchscreen which have single ITO glass substrate and cover glass. Plus-Film has nature advantage of flexibility making it highly shape adaptable. With high reliability design, it offer a fast and sensitive response touchscreen with good compatible performance. GT's X-Trim technology (four sides less than 3mm) and super narrow technology increase the value of commercial applications, and fixed tail location at 3/6 o'clock shares great convenience and compatibility for new design. All components of touchscreen are manufactured in house such as Film and Glass sensor, Cover glass, Film lamination, Controller, Cable, Drivers for different operating system and software application, which make GT's service more excellent and effective. Customization includes special active size, cover glass shape like curved, and surface treatment such as Anti-glare, Anti-reflective, Anti-fingerprint, Anti-microbial.

General touch's Optical Bonding service of touchscreen laminated with LCD module or Open cell in GT's hundred-class clean room provides with best graphic quality and longer-term solutions for ultra-normal temperature applications.



#### Controller

CT600 Series

CT700 Series

\*CT800 Series

\*Support 12mm Cover glass

## SPECIFICATIONS

### Physical Parameters

Touchscreen Size Range	Available for 7" to 65"
Light Transmittance	Plus film: $\geq 85\%$ ; Plus Glass: 90%
Sensor thickness	Plus film: 0.5mm; Plus glass: 1.1mm
Cover glass thickness	1.1mm, 2.0mm, 3.0mm, 4.0mm, 6.0mm, 8.0mm, 10mm and 12mm
Cover glass Strengthen	1.1 and 2.0mm Chemical strengthen, others Thermal tempered
Surface treatment	Anti-glare, Anti-reflective, Anti-fingerprint, Privacy Filters

### Touch Parameter

Input Methods	Finger, Gloved hand, Optional: Passive stylus
Numbers of touches	Max 40
Positional Accuracy	$\pm 1.5\text{mm}$
Touch Response Time	8~12ms

### Electrical Parameter

Input Voltage	5V DC
Report Rate	90~120Hz
Interface	USB(Standard), RS232, I2C

### Environment Parameter

Temperature	Operating: $-20^{\circ}\text{C}$ to $70^{\circ}\text{C}$
	Storage: $-30^{\circ}\text{C}$ to $80^{\circ}\text{C}$
Humidity (non-condensing)	Operating: 10% to 90% RH, $40^{\circ}\text{C}$
	Storage: 10% to 90% RH, $40^{\circ}\text{C}$
ESD	Per EN 61000-4-2: Contact discharge 6kV, Air discharge 12kV
Operating systems	Windows, Android, Linux, Chrome OS
Agency Approvals	CE, FCC Class A, UL
Warranty	3 years

Go to [www.generaltouch.com](http://www.generaltouch.com) for more products and information, or contact us.

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## Touch Screen Ordering Information

Contact sales for other options

Size	Touchscreen System P/N	Model Name	Tail	Outline dimension		Viewable Area	Structure	Controller			Color/treatment/Thickness
				L×W×T	L×W			Chip	Interface	*COB /COF	
7"	120400271R	PCT3L7SBR-G		179.6×119×2.4	154.6×94.6	GG	ILI2511	I2C	COF	Black/Clear/1.1mm	
10.1"	120400272R	PCT3L10D1SBR-G		258×176×2.4	218×136	GG	ILI2511	USB	COF	Black/Clear/1.1mm	
11.6"	120400448R	PCT3L11D6BR-G		280.5×171.8×2.4	257.4×145.2	GG	ILI2511	USB	COF	Black/Clear/1.1mm	
13.3"	120400449R	PCT3L13D3BR-G		326.0×202.0×2.4	294.8×166.2	GG	ILI2511	USB	COF	Black/Clear/1.1mm	
14"	120400273R	PCT3L14SBR-G		335×200×2.4	311×176	GG	ILI2312	USB	COB	Black/Clear/1.1mm	
15"	120400289R	PCT3L15SR-G		330×257×2.4	305.1×229.1	GG	ILI2312	USB	COB	Black/Clear/1.1mm	
15.6"	120400288R	PCT3L15D6SBR-G		377.7×234.7×2.4	344.5×193.9	GG	ILI2511	USB	COF	Black/Clear/1.1mm	
17"	120400290R	PCT3L17SR-G-A		377×309×2.4	338.9×271.3	GG	ILI2312	USB	COB	Black/Clear/1.1mm	
18.5"	120400287R	PCT3L18D5SBR-G		446×271.2×2.4	410.8×231.4	GG	ILI2312	USB	COB	Black/Clear/1.1mm	
19"	120400285R	PCT3L19SR-G-B		421×346×2.4	377.3×302.	GG	ILI2312	USB	COB	Black/Clear/1.1mm	
21.5"	120400284R	PCT4L21D5SBR-F		516×311×2.5	478×269.6	GFF	ILI2312	USB	COB	Black/Clear/2mm	
21.5"	120400453R	PCT4L21D5BR-G-E5A		516.0*311.0*3.3	478*269.6	GG	ILI2510	USB	COB	Black/Clear/2mm	
21.5"	120400451R	PCT3L21D5BR-G-B		525*312*2.4	478*269.6	GG	ILI2312	USB	COB	Black/Clear/1.1mm	
23.8"	120400387R	PCT4L23D8SBR-F		569.2*341.1*3.5	532x300	GFF	ILI2312	USB	COB	Black/Clear/3mm	
23.8"	120400264R	PCT5L23D8BR-G		569.2*341.1*4.3	533x300.6	GG	ILI2312	USB	COB	Black/Clear/3mm	
27"	120400231R	PCT4L27SBR-F		644.2*388.4*3.5	600.6x339.2	GFF	ILI2312	USB	COB	Black/Clear/3mm	
27"	120400260R	PCT4L27BR-G		644.2*388.4*3.3	600.4x339.0	GG	ILI2312	USB	COB	Black/Clear/2mm	
32"	120400278R	PCT5L32SBR-F-B		765*466.5*4.5	698.7x393.3	GFF	ILI2312	USB	COB	Black/Clear/4mm	
32"	120400277R	PCT6L32SBR-G		746.5*452*5.3	698.4x392.8	GG	ILI2312	USB	COB	Black/Clear/4mm	
43"	120400276R	PCT5L43SBR-F-A		1013.8*671.6*4.7	936*529	GFF	ILI2315	USB	COB	Black/Clear/4mm	
43"	120400275R	PCT5L43SBR-F-B		983.7*571.9*3.5	947.7X535.9	GFF	ILI2315	USB	COB	Black/Clear/4mm	
50"	120400454R	PCT5L50BR-F		1188.1*685.5*4.5	1095.8×613.9	GFF	ILI2325	USB	COB	Black/Clear/4mm	
55"	120400455R	PCT4L55BR-F		1255.4x732.4*3.5	1211.6X682.4	GFF	ILI2325	USB	COB	Black/Clear/3mm	

## Touch Sensor Ordering Information

Contact sales for other options

Size	Touch Sensor System P/N	Model Name	Tail	Outline dimension	Active Area	Structure	Controller		
				L×W×T	L×W		Chip	Interface	*COB /COF
7"	120400312R	PFT2L7BR-G-C		163.2*108.6*1.1	156.4*97.8	Glass	ILI2511	I2C	COF
10.1"	120400311R	PFT2L10D1BR-G		235.9*154.4*1.1	220.4*139	Glass	ILI2511	USB	COF
11.6"	120400385R	PFT2L11D6BR-G		270.5*161.8*1.1	257.2*145.0	Glass	ILI2511	USB	COF
13.3"	120400440R	PFT2L13D3BR-G		304*180.8*1.1	297.2*168.6	Glass	ILI2511	USB	COF
14"	120400310R	PFT2L14BR-G		320.2*189.8*1.1	313.4*178.4	Glass	ILI2312	USB	COB
15"	120400309R	PFT2L15R-G		321.4*247.4*1.1	307.5*231.5	Glass	ILI2312	USB	COB
15.6"	120400308R	PFT2L15D6BR-G		358.2*209.7*1.1	347.2*197.0	Glass	ILI2511	USB	COF
17"	120400306R	PFT2L17R-G		355.22*289.62*1.1	341*275.1	Glass	ILI2312	USB	COB
18.5"	120400307R	PFT2L18D5BR-G		427.1*249.7*1.1	413.2*233.8	Glass	ILI2312	USB	COB
19"	120400305R	PFT2L19R-G		393.8*320.34*1.1	380.0*305.3	Glass	ILI2312	USB	COB
21.5"	120400304R	PFT1L21D5BR-F		491.0*285.8*0.5	481*272.6	F/F	ILI2312	USB	COB
21.5"	120400446R	PFT2L21D5BR-G-E5A		493.0*286.4*1.1	481.4x272	Glass	ILI2510	USB	COB
21.5"	120400442R	PFT2L21D5BR-G-B		493.0*286.4*1.1	481.4x272	Glass	ILI2312	USB	COB
23.8"	120400444R	PFT2L23D8BR-G		543x317.7x1.1	533x300.6	Glass	ILI2312	USB	COB
23.8"	120400303R	PFT1L23D8BR-F		543*317.7*1.1	532x300	F/F	ILI2312	USB	COB
27"	120400247R	PFT2L27BR-G		619.1x360.2*0.5	600.4x339.0	Glass	ILI2312	USB	COB
27"	120400300R	PFT1L27BR-F-B		619.1*360.3*0.5	600.6x339.2	F/F	ILI2312	USB	COB
32"	120400299R	PFT1L32BR-F		712.4*411.7*0.5	701x398	F/F	ILI2312	USB	COB
32"	120400298R	PFT2L32BR-G		723.2×421.8×1.1	700.4x394.9	Glass	ILI2312	USB	COB
43"	120400297R	PFT1L43BR-F-A		969*560*0.5	940*533	F/F	ILI2315	USB	COB
43"	120400296R	PFT1L43BR-F-B		969.7*561.6*0.5	947.7X535.9	F/F	ILI2315	USB	COB
50"	120400294R	PFT1L50BR-F		1164.3*675.7*0.5	1097.5*617.4	F/F	ILI2315	USB	COB
55"	120400293R	PFT1L55BR-F		1238.5x708.6x0.5	1217.6X686.4	F/F	ILI2325	USB	COB

## Optional Accessories

### Cable order information for Touch Screen and Touch Sensor

P/N	Length	Cable interface	Touch Interface	Interface Board P/N	Remark
130300980R	0.3M	NA	USB-B	120301407R	for touch monitor
130300224R	1.5M	NA	USB-B	120301407R	for touch monitor
130301165R	0.3M	NA	RS232	120301371R	for touch monitor
130301116R	1.2M	USB-B	NA	NA	For PC
130301199R	2.0M	USB-PIN	NA	NA	For PC

### PCAP Controller information

Model	OD	Screen size range	Form factor	Interface	Touch screen family	Controller IC	Operating Temp.	Storage Temp.	Response time	MAX Touch	10V RMS CS	Touch through glass	Glove
7 COF	108×61×3.3	7"	COF	USB /I <sup>2</sup> C	Plus-Film/Plus-Glass	ILI2511	-20~70℃	-30~80℃	8~12ms	10	yes	Good	Good
10.1 COF	100×58×3.3	10.1"	COF	USB /I <sup>2</sup> C	Plus-Film/Plus-Glass	ILI2511	-20~70℃	-30~80℃	8~12ms	10	yes	Good	Good
13.3 COF	100×58×3.3	13.3"	COF	USB /I <sup>2</sup> C	Plus-Film/Plus-Glass	ILI2511	-20~70℃	-30~80℃	8~12ms	10	yes	Good	Good
15.6 COF	100×58×3.3	15.6"	COF	USB /I <sup>2</sup> C	Plus-Film/Plus-Glass	ILI2511	-20~70℃	-30~80℃	8~12ms	10	yes	Good	Good
CT609	70×33×4	7"~21.5"	COB	USB/RS232/I <sup>2</sup> C	Plus-Film/Plus-Glass	ILI 2312	-20~70℃	-20~80℃	8~10ms	10	yes	Good	Good
CT612	103×40×4	21.5"~32"	COB	USB/RS232/I <sup>2</sup> C	Plus-Film/Plus-Glass	ILI 2312	-20~70℃	-20~80℃	8~10ms	10	yes	Good	Good
CT701	130×53×4	40"~43"	COB	USB/RS232/I <sup>2</sup> C	Plus-Film/Plus-Glass	ILI 2315	-20~70℃	-20~80℃	8~12ms	10	yes	Good	Good
CT702	120×45×4	40"~43"	COB	USB/RS232/I <sup>2</sup> C	Plus-Film	ILI 2315	-20~70℃	-20~80℃	8~12ms	10	yes	Good	Good
CT703	110×70×4	43"~55"	COB	USB/RS232/I <sup>2</sup> C	Plus-Film	ILI 2315+M2V	-20~70℃	-20~80℃	8~12ms	40	yes	Good	Good
CT800	102×51×4	15.6"~32"	COB	USB/RS232/I <sup>2</sup> C	Plus-Film/Plus-Glass	EETI EXC80W84	-20~70℃	-20~80℃	8~12ms	20	yes	Best	Best

### Touchscreen Product Selection Table

Touch screen Size/Inch	7	10	12	15	17	19	22	24	27	32	43	49	55	65
Plus-Glass	CT609 COF													
	CT609 COB						CT612							
Plus-Film	CT609 COF													
	CT609 COB						CT612				CT701		CT703	
	CT800 advanced													