

PRODUCT SPECIFICATION

MODEL : T195~T270

CUSTOMER :

CHECKED					APPROVED

SUPPLIER : ICT Co., Ltd

DESIGN	CHECKED				APPROVED



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REVISION HISTORY

<i>Version</i>	<i>Date</i>	<i>Change Description</i>
<i>1.0</i>	<i>May 11, 2018</i>	<i>First release</i>

이 문서는 (주)테엑테크놀로지의 소유물로서 저작권법에 따라 보호받고 있다.

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복사, 그리고 사외로 배포할 수 없다.

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*APPENDIX *Touch compatible with Below OS*

1. INTRODUCTION

Features :

- ✓ Smart and easy assembly
- ✓ Ultra-low power consumption , Adaptor-free
- ✓ A plug-and-play device
: Windows 10/8/7,XP、 Android、 Linux、 Mac、 Chrome
- ✓ Support ten touch points solution.
- ✓ Strong light resistance, work in severe environment
- ✓ Application
: Interactive Flat Panel, Kiosk, Digital Signage

2. TOUCH SPECIFICATIONS

2.1 GENERAL SPECIFICATIONS

Item	Description	Remarks
Detection Method	Infrared rays	
Touch Interpolation	32768(W)× 32768(D)	
Response Time	< 9 ms	
Touch Accuracy	± 2 mm (Over 90% area)	
Touch Input Method	Finger, Finger of gloved hand, Opaque objects	
Output Form	Coordinate Value	
Latency	9 ms	Continuous
Optics Cell Pitch	6 mm	
Optics Number	See drawing for each inch	
Available Object Size for Touch	Single	5 mm
	Multi	8 mm
Interface	A-Type USB/M	

2.2 MECHANICAL SPECIFICATIONS

Item	Description	Remarks
Housing	Aluminum	
Housing Color	Black	
Out-dimension	See drawing for each inch	(H) x (V) mm
Active Area	See drawing for each inch	Panel Company
Thickness	9.4 mm	Housing
Glass*	Type	3mm Heat strengthened glass
	Transparence	Min. 95%
Weight	Net	See drawing for each inch
	Gross	See drawing for each inch

*Glass Type

-.32 inches or less : Heat strengthened glass

-.More than 42 inches : Tempered glass

2.3 ELECTRICAL SPECIFICATIONS

Item	Description	Remarks
Interface	B-Type USB/Harness	
Scan Periods	110 Hz	
Frame Rate	110 Hz	
Communication	USB 2.0 Full Speed	
Transmission Rate	12 Mbps	
Operating Voltage	DC 5V \pm 5%	
Power Supply Mode	USB	
Average Current	150 mA \pm 10%	
Power Consumption(Active)	0.8W \pm 10%	DC 5.1V/150mA
How to supply it	From PS-2 port of PC or external power	

3. RELIABILITY

Item	Specification	Remarks	
Ambient Temperature	Operating	-10℃ to 50℃	No functional failure.
	Storage	-20℃ to 60℃	
Humidity	Operating	30%~ 60% RH, non-condensing	
	Storage	30%~ 70% RH, non-condensing	
Vibration (Non-operating)	Frequency: 5~200H, power spectral density: 0.015G ² /Hz, total RMS acceleration: 1.57G, vibration mode: random vibration	Packaged product / Non-operation	
Ball Drop	500g steel ball / 120cm Floor material : Double supported steel beam	The glass should not break.	
ESD	Contact	\pm 4 kV	IEC61000-4-2 B level
	Air	\pm 8 kV	
Ambient Light		> 70,000 Lux	Sunlight
		100W, H=20cm	Incandescent Lamp
Warranty	1 year		

4. SOFTWARE SPECIFICATIONS

Item	Description
Firmware Upgrade	USB Upgrade: Windows system
Multi Touch	Windows 7 Ultimate, Windows 7 Professional, Windows 7 Home Premium, Android (need patch in kernel code), Windows 8/8.1, Windows 8 Pro, Windows 8 Enterprise, Windows 10 * Performance will be impacted if mentioned systems do not support multi-touch function or have no copyrights. And Windows 8 must be non OEM version.
Single Touch	Windows 2000, Windows XP, Vista, Linux, Mac, Android, and WinCE and Chrome
Scanning Form	Auto start , Always scan
Movement Mode	Input point, Finishing point, Following, Continuous detection
Controllerreported resolution	32768(X) x 32768(Y)
Output form	Coordinate Output
Firmware version	to be confirmed (Update After Confirmed)

5. INTERFACE SPECIFICATIONS

5.1 USB/UART Connector(7PIN)

Pin No	Definition	Description
1	VCC	+5V
2	D-	USB Data -
3	D+	USB Data +
4	GND	Ground
5	GND	Ground
6	NC	
7	NC	

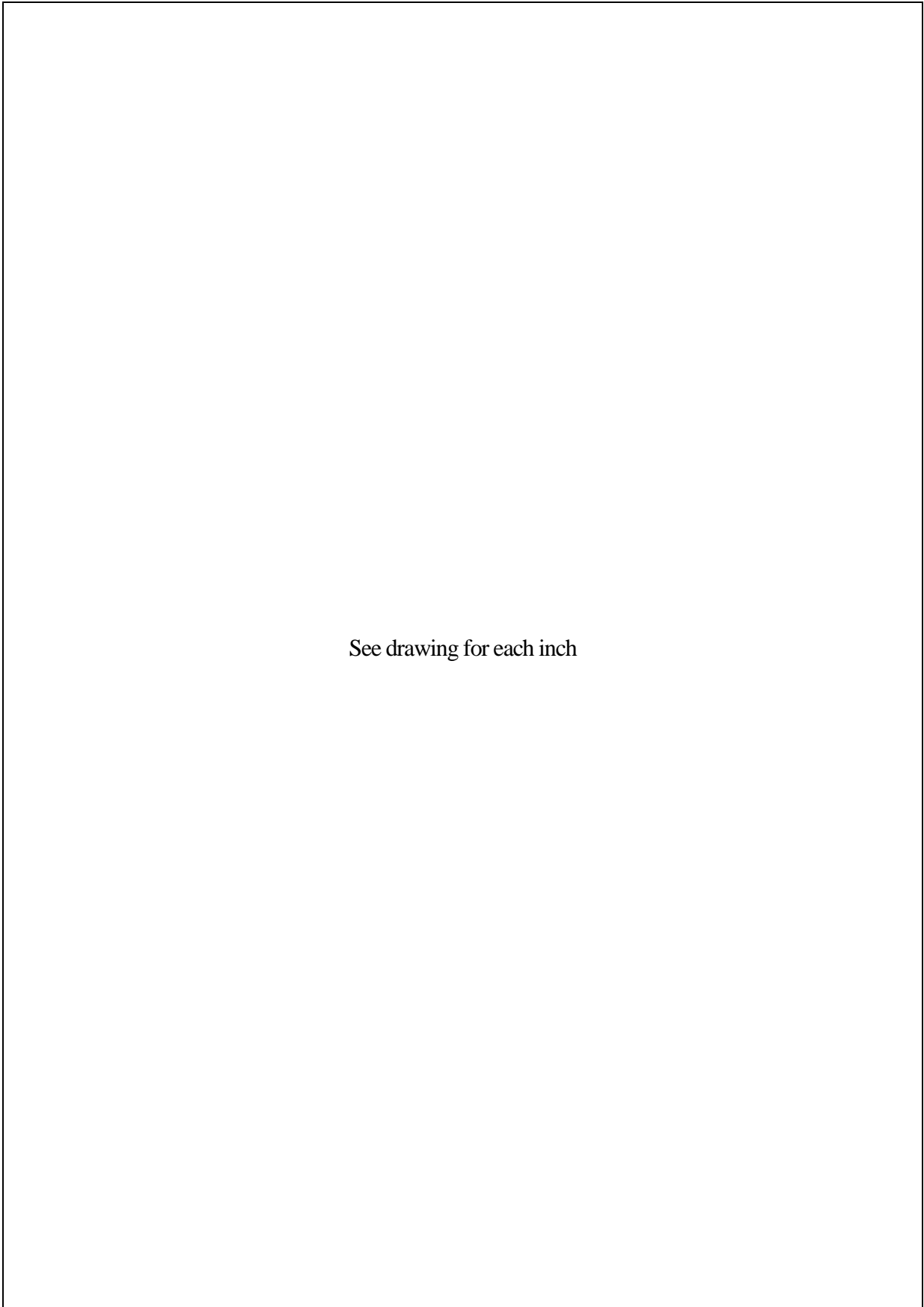
The diagram shows a side view of a 7-pin connector. The pins are numbered 1 to 7 from right to left. Pin 1 is the rightmost pin, and pin 7 is the leftmost pin. A label 'PCB' points to the top surface of the connector housing, and a label 'Connector' points to the bottom surface. The pins are shown protruding from the top of the housing.

5.2 Etc., Port Connector

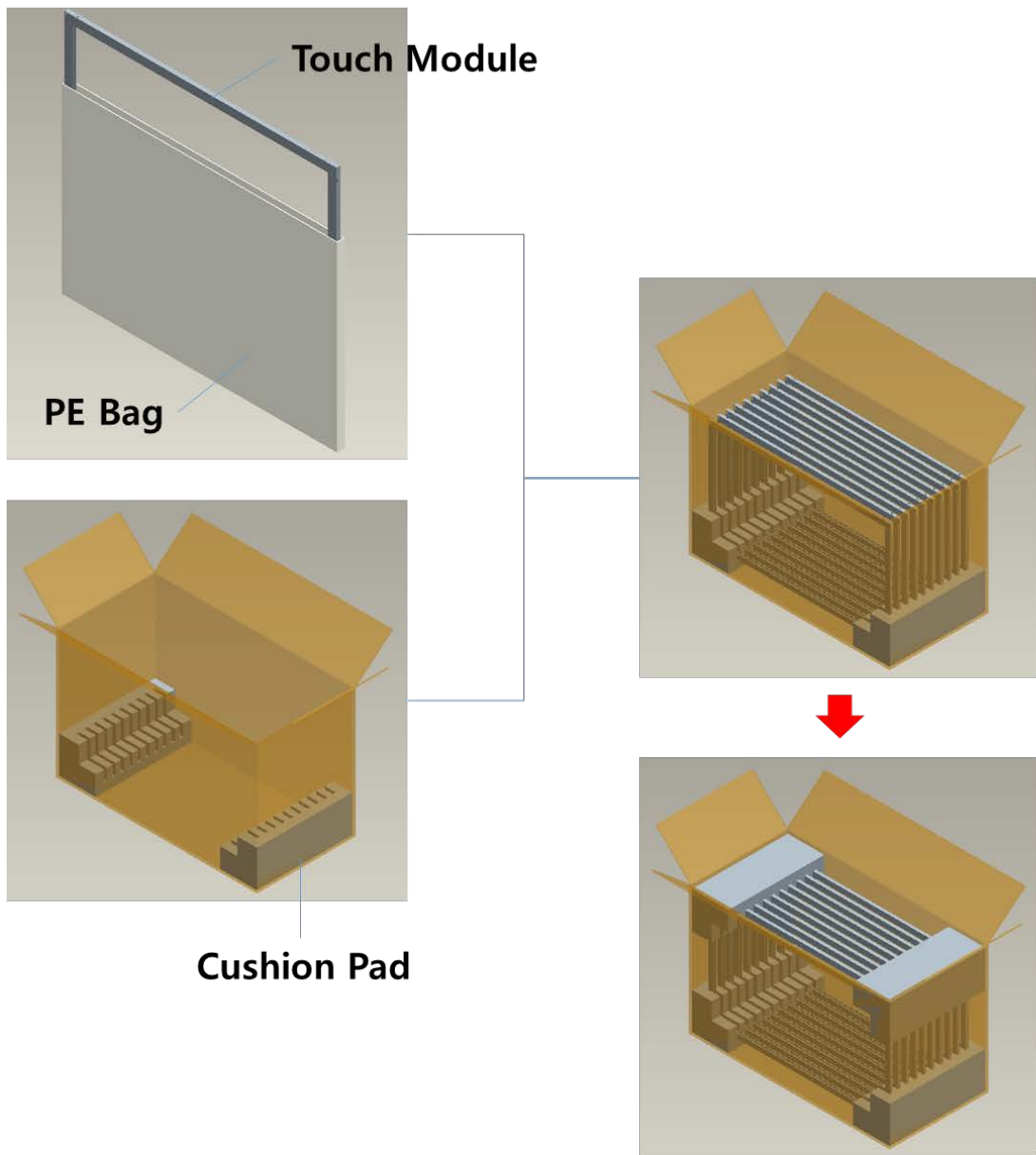
: Customization

6. MECHANICAL DIMENSIONS

6.1 APPEARANCE

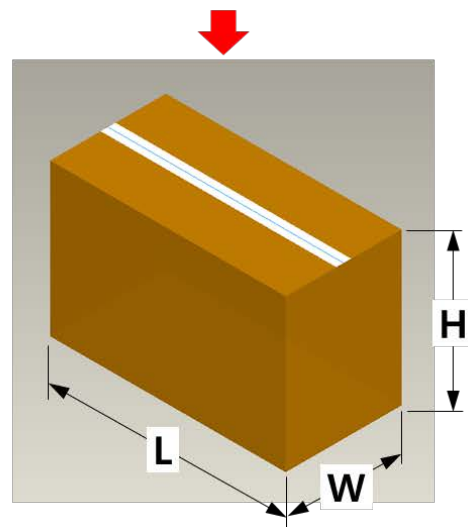


7. PACKING SPECIFICATIONS



*19.5" ~ 27" : 10EA/BOX

NO	INCH	L	W	H
1	T195	548	350	360
2	T215	591	350	392
3	T220	588	350	420
4	T230	623	350	411
5	T238	641	350	421
6	T240	645	350	423
7	T270	712	350	460



8. HANDLING PRECAUTIONS

8.1 .STORAGE

- 1) Do not leave the Module in high temperature, and high humidity for a long time.
It is highly recommended to store the Module with temperature from 0 to 35 °C and relative humidity of less than 70%.
- 2) Protect from static electricity and dust.

8.2 HANDLING

- 1) Be careful not to twist and bend the touch panel.
- 2) No strong shock such as a drop shall not be applied when handling.
- 3) Operating area, fixtures, tools and all related facility shall be earthed.
- 4) Refrain from strong mechanical shock and / or any force to the touch panel.
In addition to damage, this may cause improper operation or damage to the touch panel.
- 5) Wipe off water droplets or oil immediately. If you leave the droplets for a long time, staining or discoloration may occur.
- 6) Desirable cleaners are water or Alcohol.
Do not use Acetone, Caustic soda, Amine, Ammonia, Strong acid, Ethyl alcohol, Pyridine, Acetone, Benzene, Ester or Methyl chloride.
- 7) Do not spray Cleaners to the device directly, sprayed on a soft cloth and use it.
- 8) Surely turn the power off before clean the device

Touch compatible with Below OS



OS	Windows						
Sub-OS	Windows 2000	Windows XP	Windows Vista	Windows 7	Windows 8/8.1	Windows 10	Windows CE 6.0
Support?	√	√	√	√	√	√	√
Multi-touch	single	single	single	√	√	√	single
Driver	HID compliance ,not need any driver						Need driver
Notice:	Performance will be impacted if mentioned systems do not support multi-touch function or have no copyrights. And Windows 8 must be non OEM version						



OS	Linux			
Sub-OS	Fedora10+ or above	Ubuntu10.04+ or above	RedFlag 6.2 + or above	OpenSuse 11.4 + or above
Support?	√	√	√	√
Multi-touch	· kernel version 3.0+ ,can support multi-touch by adding patch · kernel version 3.5+ ,HID compliance support multi-touch			
Driver	HID compliance.			



OS	Mac OS X	
Sub-OS	10.9 or lower	10.10 or above
Support?	√	√
Driver	Supported by UPDD driver	
Notice:	HID compliance support single touch Multi-touch supported by UPDD driver	



OS	Android				
Sub-OS	2.1	2.2	2.3	3	4.0/4.1/4.2/4.3/4.4
Support?	N/A	√	√	N/A	√
Driver	HID compliance.				
Multi-touch	·kernel version 2.6.32+ , we can provide patch Kernal version 3.5+ , HID copliance support Multi-touch				



OS	Chrome
Sub-OS	39 or above
Support?	√
Driver	HID compliance.

Notice: if your OS version is not above mentioned ,pls contact us