## **Product Description**



5 Wire Resistive Touch Screens Available Size 7 Inch-32 Inch 5 Wire Resistive Touch Screen, 7" -22", OEM ODM

## **Product Description**

## 8.4 Inch 5 Wire Resistive Touch Screen Panel | TDS084A5B001

Technical Data	
Part Number	TDS084A5B001
Screen Diagonal	8.4"
Format	4:3
Active Area (L*W:mm)	171.88*129.16

View Area (L*W: mm)       175.5*133         Outline Dimension (L*W:mm)       186.95*149.5         Surface Disposal       Anti-Glare Coating         Anti-Newton Ring       Glare (Option)         Glare (Option)         Glass Thickness       1.3/ 1.8mm         Touch Technologies         Analog Resistive, 5-Wire Touchscreen         ITO Film and ITO Glass         Input Method       Finger         Gloved hand       Passive stylus         Active Force       ≤ 45g~110g         Linearity Error       ≤1.5%         Response Time       10ms         Surface resistance       2000~9000         Operating Life       Finger Input Over 5,000,000 hits         Character Input (pen) Over 100,000 Characters         Surface Hardness       Over 3H (per ASTM D3363) based on technology requests         Environmental Specifications         Light Transmission       Over 80% ( Meet ASTM D1003 )         Operating Temperature       -20°C ~ 70°C (no condensation)			
Surface Disposal       Anti-Glare Coating         Anti-Newton Ring       Glare (Option)         Glass Thickness       1.3/ 1.8mm         Touch Technologies       Analog Resistive, 5-Wire Touchscreen         Sensor Construction       ITO Film and ITO Glass         Input Method       Finger         Gloved hand       Passive stylus         Active Force       ≤ 45g~110g         Linearity Error       ≤1.5%         Response Time       10ms         Surface resistance       200Ω~900Ω         Operating Life       Finger Input Over 5,000,000 hits         Character Input (pen) Over 100,000 Characters         Surface Hardness       Over 3H (per ASTM D3363) based on technology requests         Environmental Specifications         Light Transmission       Over 80% ( Meet ASTM D1003 )	View Area (L*W: mm)	175.5*133	
Anti-Newton Ring Glare (Option)  Glass Thickness  1.3/ 1.8mm  Touch Technologies  Touch Technologies  Analog Resistive, 5-Wire Touchscreen  ITO Film and ITO Glass  Input Method  Finger  Gloved hand  Passive stylus  Active Force  Linearity Error  Response Time  10ms  Surface resistance  Operating Life  Finger Input Over 5,000,000 hits  Character Input (pen) Over 100,000 Characters  Surface Hardness  Environmental Specifications  Light Transmission  Over 80% ( Meet ASTM D1003 )	Outline Dimension (L*W:mm)	186.95*149.5	
Glare (Option)  Glass Thickness  1.3/ 1.8mm  Touch Technologies  Touch Technologies  Analog Resistive, 5-Wire Touchscreen  Sensor Construction  Input Method  Finger  Gloved hand  Passive stylus  Active Force  Linearity Error  Response Time  Surface resistance  Operating Life  Finger Input Over 5,000,000 hits  Character Input (pen) Over 100,000 Characters  Surface Hardness  Environmental Specifications  Light Transmission  Over 80% ( Meet ASTM D1003 )	Surface Disposal	Anti-Glare Coating	
Glass Thickness1.3/ 1.8mmTouch TechnologiesAnalog Resistive, 5-Wire TouchscreenSensor ConstructionITO Film and ITO GlassInput MethodFingerGloved handPassive stylusActive Force≤ 45g~110gLinearity Error≤1.5%Response Time10msSurface resistance200Ω~900ΩOperating LifeFinger Input Over 5,000,000 hitsCharacter Input (pen) Over 100,000 CharactersSurface HardnessOver 3H (per ASTM D3363) based on technology requestsEnvironmental SpecificationsLight TransmissionOver 80% ( Meet ASTM D1003 )		Anti-Newton Ring	
Touch Technologies  Touch Technologies  Analog Resistive, 5-Wire Touchscreen  ITO Film and ITO Glass  Input Method  Finger  Gloved hand  Passive stylus  Active Force  Linearity Error  Response Time  Surface resistance  Operating Life  Finger  10ms  Surface resistance  200Ω~900Ω  Finger Input Over 5,000,000 hits  Character Input (pen) Over 100,000 Characters  Surface Hardness  Over 3H (per ASTM D3363) based on technology requests  Environmental Specifications  Light Transmission  Over 80% ( Meet ASTM D1003 )		Glare (Option)	
Touch Technologies  Sensor Construction  Input Method  Input Method  Input Method  Finger  Gloved hand  Passive stylus  Active Force  Linearity Error  Response Time  Surface resistance  Operating Life  Surface Hardness  Character Input (pen) Over 100,000 Characters  Over 3H (per ASTM D3363) based on technology requests  Environmental Specifications  Light Transmission  Over 80% ( Meet ASTM D1003 )	Glass Thickness	1.3/ 1.8mm	
Sensor ConstructionITO Film and ITO GlassInput MethodFingerGloved handPassive stylusActive Force≤ 45g~110gLinearity Error≤1.5%Response Time10msSurface resistance2000~900ΩOperating LifeFinger Input Over 5,000,000 hitsCharacter Input (pen) Over 100,000 CharactersSurface HardnessOver 3H (per ASTM D3363) based on technology requestsEnvironmental SpecificationsLight TransmissionOver 80% ( Meet ASTM D1003 )	Touch Technologies		
Input MethodFingerGloved handPassive stylusActive Force≤ 45g~110gLinearity Error≤1.5%Response Time10msSurface resistance200Ω~900ΩOperating LifeFinger Input Over 5,000,000 hitsCharacter Input (pen) Over 100,000 CharactersSurface HardnessOver 3H (per ASTM D3363) based on technology requestsEnvironmental SpecificationsLight TransmissionOver 80% ( Meet ASTM D1003 )	Touch Technologies	Analog Resistive, 5-Wire Touchscreen	
Gloved hand Passive stylus  Active Force ≤ 45g~110g  Linearity Error ≤1.5%  Response Time 10ms  Surface resistance 200Ω~900Ω  Operating Life Finger Input Over 5,000,000 hits  Character Input (pen) Over 100,000 Characters  Surface Hardness Over 3H (per ASTM D3363) based on technology requests  Environmental Specifications  Light Transmission Over 80% ( Meet ASTM D1003 )	Sensor Construction	ITO Film and ITO Glass	
Passive stylus         Active Force       ≤ 45g~110g         Linearity Error       ≤1.5%         Response Time       10ms         Surface resistance       200Ω~900Ω         Operating Life       Finger Input Over 5,000,000 hits         Character Input (pen) Over 100,000 Characters         Surface Hardness       Over 3H (per ASTM D3363) based on technology requests         Environmental Specifications         Light Transmission       Over 80% ( Meet ASTM D1003 )	Input Method	Finger	
Active Force≤ 45g~110gLinearity Error≤1.5%Response Time10msSurface resistance200Ω~900ΩOperating LifeFinger Input Over 5,000,000 hitsCharacter Input (pen) Over 100,000 CharactersSurface HardnessOver 3H (per ASTM D3363) based on technology requestsEnvironmental SpecificationsLight TransmissionOver 80% ( Meet ASTM D1003 )		Gloved hand	
Linearity Error  Response Time  Surface resistance  Operating Life  Finger Input Over 5,000,000 hits  Character Input (pen) Over 100,000 Characters  Surface Hardness  Over 3H (per ASTM D3363) based on technology requests  Environmental Specifications  Light Transmission  Over 80% ( Meet ASTM D1003 )		Passive stylus	
Response Time $10ms$ Surface resistance $200\Omega \sim 900\Omega$ Operating Life Finger Input Over 5,000,000 hits Character Input (pen) Over 100,000 Characters Surface Hardness Over 3H (per ASTM D3363) based on technology requests Environmental Specifications Light Transmission Over 80% ( Meet ASTM D1003 )	Active Force	≤ 45g~110g	
$Surface \ resistance \\ Operating \ Life \\ Surface \ Hardness \\ Surface \ Hardness \\ Surface \ Hardness \\ Over \ 3H \ (per \ ASTM \ D3363) \ based \ on \ technology \ requests \\ Environmental \ Specifications \\ Light \ Transmission \\ Over \ 80\% \ (\ Meet \ ASTM \ D1003 \ )$	Linearity Error	≤1.5%	
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Surface Hardness  Over 3H (per ASTM D3363) based on technology requests  Environmental Specifications  Light Transmission  Over 80% ( Meet ASTM D1003 )	Operating Life	Finger Input Over 5,000,000 hits	
requests  Environmental Specifications  Light Transmission  Over 80% ( Meet ASTM D1003 )		Character Input (pen) Over 100,000 Characters	
Light Transmission Over 80% ( Meet ASTM D1003 )	Surface Hardness	,	
	Environm	nental Specifications	
Operating Temperature -20°C ~ 70°C (no condensation)	Light Transmission	Over 80% ( Meet ASTM D1003 )	
	Operating Temperature	-20°C ~ 70°C (no condensation)	
Storage Temperature -30°C ~ 80°C (no condensation)	Storage Temperature	-30°C ~ 80°C (no condensation)	
Operating Humidity 10%~90% RH at 60°C, non-condensing	Operating Humidity	10%~90% RH at 60°C, non-condensing	
Storage Humidity 10%~90% RH at 40°C, non-condensing	Storage Humidity	10%~90% RH at 40°C, non-condensing	
Chemical Resistance Alcohol, Gasoline, Machine Oil, Ammonia, Glass Cleaner, Mayonnaise, Ketchup, Salad Oil	Chemical Resistance		

Vinegar, Lipstick, Toluene, Tricholoroethylene, Athetone, Wine, etc.

## **Electrical Characteristics**

EleCti	ical Characteristics
Operation Voltage	Typical +DC 5V (3~7 V)
Interface	FPC Pintch 0.5mm/1mm (connect with mainboard)
	Via Controller Board:
	1. Full Duplex USB 2.0 (Full Speed) Plug and play compatible
	2. Serial RS-232. Baud Rate: 9600, 8 Data Bits, 1 Stop Bit, No Parity
Current	5mA~25mA
Electrostatic Endurance	No abnormal appearance after 10kv, 100 $\Omega$ , 250PF electrostatic used
Isolation Resistance	>20MΩ @ DC 25V
Resistance	$300\Omega$ < X Axis < $900\Omega$ , $200\Omega$ < Y Axis < $800\Omega$ (according sizes)
R	eliability Tests
Heat Cycle	70℃ /240 hrs
Heat Cycle  Cold Cycle	70°C /240 hrs -40°C /240 hrs
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Cold Cycle Thermal Cycle	-40°C /240 hrs
Cold Cycle Thermal Cycle	-40°C /240 hrs -40°C ~70°C [60 min./cycle] *10 cycles
Cold Cycle Thermal Cycle Resis	-40°C /240 hrs  -40°C ~70°C [60 min./cycle] *10 cycles  tive Touch Drivers  Dos, Windows ME,Windows 95,Windows 98,Windows
Cold Cycle Thermal Cycle Resis	-40°C /240 hrs  -40°C ~70°C [60 min./cycle] *10 cycles  tive Touch Drivers  Dos, Windows ME,Windows 95,Windows 98,Windows  NT4.0,Windows XP
Cold Cycle Thermal Cycle Resis	-40°C /240 hrs  -40°C ~70°C [60 min./cycle] *10 cycles  tive Touch Drivers  Dos, Windows ME,Windows 95,Windows 98,Windows  NT4.0,Windows XP  Windows 2000,Windows 7,Windows 8,Windows 10

<sup>\*</sup> The specification is subject to change without prior notice.