DY1562W-4262

ACDC® LG-Siliconworks SW4101DProjected Capacitive Multi-Touch Touch Panel

Approval Sheet

Ver. 1.0





Revision History

Date	Version	Description
2020.01.10	V1.0	First version





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Introduction

Shipping Damage

 On receipt of ACDC Projective Capacitive Multi Touch Panel Product, if you notice damage to the shipping carton, or concealed damage, be sure to save all packing materials for later inspection by the carrier, who is responsible for any shipping damage.

Warranty

 If failure occurs during the warranty period of the product, please contact your retailer from which the product was purchased.

Safety Information

- To avoid damage, keep sharp objects away from the touch panel and FPC.
- Avoid dust, humidity, and temperature extremes. Do not place the product in any area where it may become wet.
- Place the product on a stable surface.
- If you encounter technical problems with the product, contact a qualified service technician or your retailer.



The symbol of the crossed out wheeled bin indicates that the product (electrical and electronic equipment) should not be placed in municipal waste. Check local regulations for disposal of electronic products.



bes the item

This chapter describes the item for warranty





1 Warranty

The warranty specified applies to ACDC's line of projected capacitive touch screens. The period of this warranty is defined as one [1] year from the date of shipment of the product. The warranty is considered to be null and void in case of the following:

- Failure to follow the use, storage, handling, operation or other aspects as outlined by this document and leading to product failure are not covered under warranty.
- Physical damage to the touch screen (breakage, cracking, etc.) that date from after the shipment of the product Accidental or Intentional Vandalism, Neglect or Force Majeure.
- Damage resulting from improperly conducted installation, secondary manufacturing activities or assembly.
- Warranty is only limited to the products provided by ACDC; ACDC makes no additional warranty and are not responsible for any other direct or indirect loss caused by our product's failure.
- All non-conforming or defective products should be reported in writing as per our standard RMA procedure.



Contidential Contidential

This chapter describes the application for touch panel





2 Application

• The product is a projected capacitive touch panel used as the input devices for general electricappliances and OA equipment.





is the

This chapter describes the specification and touch IC for touch panel

Structure and Specification



3 Structure and Specification

3.1 Structure

Structure	Materials	Description	Remark
First Layer	Cover Lens	Glass	Thickness: 1.8mm
Second Layer	Sensor	ITO Glass	Thickness: 1.1mm
Tail type	FPC	FPC	Gold-Plated

3.2 Specification

Item	Dimension	Unit
Dimensional Outline	387.00 (L) ×235.00 (W) ×3.30 (T)	mm
Viewing Area	345.23 (L) ×194.54 (W)	mm
FPC Length	103.13	mm

Note:Sensor Source: in house

3.3 Control board

Item	Specification				
Model	SW4101DS-DY20-A				
IC	SiW,SW4101D				
Interface	USB,I2C				
Dimensional	50(L) X 30(W) X1.6(T)				
OS	Windows, Android, Linux				
FW Version	TBD				
Input Mode	Finger				
Remark: Regarding the IC specification, please refer the IC data sheet from supplier					





This chapter describes the electrical and optical spec for touch panel

4

Characteristics



4 Characteristics

4.1 Environmental Conditions

Item	Specification		Remark
Operating temperature & Humidity	-10°C~+60°C	-10°C~+40°C / 10%-90%RH	Daniel
Operating temperature &Humidity		+40°C~+60°C / 10%-60%RH	Panel
Storago tomporaturo 9 Humidity	20°C .70°C	-20°C∼+60°C / 10%-90%RH	only,Non-condensin
Storage temperature &Humidity	-20°C~+70°C.	+60°C~+70°C / 10%-60%RH	g

Note: if environmental testing is required when the touch panel is powered on, it should be conducted with the touch panel incorporated into a final assembly or enclosure. Unassembled touch panels are not suited for environmental testing in powered on mode.

4.2 Electrical Characteristics

Item	Specification	Remark
Touch point	10-Points	The number of touch points simultaneously detect
Max voltage	DC 5V max	
Reporting rate	TBD	
ESD	Contact: 4K Air: 6K	

4.3 Mechanical Characteristics

ltem	Specification	Remark
Input method	Finger or exclusive pen	
Operation force	≤10g	finger input
Hardness	≥6H	Pressure 500gf test

4.4 Optical Characteristics

Item	Specification	Remark
Transparency	≥85%	Visible light at 550nm





This chapter describes the appearance standard for touch panel

Appearance Inspection



5 Appearance Inspection

5.1 Inspection Regulation

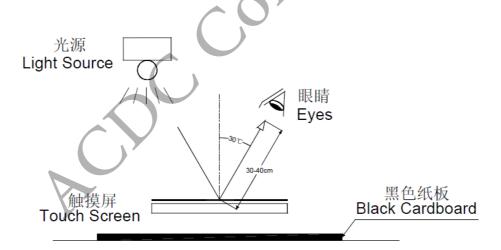
5.1.1 Inspection Scope

This standard applies only to visible areas. All areas outside of viewing area which will not influence product performance and all stains which can be wiped away by using neutral detergent or isopropyl alcohol and a wipe will not be regarded as a defect.

Visible Area Definition: the visible area after customer assembly into enclosure (generally defined as the viewing window on the front side of the glass); the cover glass's visual area includes the silk-screened border on the front of the cover glass frame and the cover glass window's viewing window.

5.1.2 Inspection Condition

Staff is 1.0 and above visual acuity in healthy adults (including those using glasses). Source of the lighting for inspection is 20-40 W cool white color fluorescent light. (Required inspection tables illumination between 1000 ~ 1200 Lux), and viewing distance for inspection between eyes and product are maintained at 30-40cm. Meanwhile, add black and white cardboard under the product as background. Inspection time is less than 12 secs for each piece as the following:





5.2 Dot Defects and Linear Defects

Inspection					Criteria			Inspection	Defect
	TP Size<17"P+G								
	Point defects								
	Size Φ mm			VA allowed number Non-VA allowed					
	Black/blue		Ф≤0.′	15		but cannot centrated			
	or other	hro	0.15 < Ф:	≤0.25	A area	B area N≤2	Excluded		
	mia poi	nts	0.25 <	(Φ	0	0			
lana veriti na	White d		Ф≤0.′	15		but cannot centrated	277.0	Visual/film	Slight/C
Impurities, stains, bubbles,	points of the same		0.15 < Ф:	≤0.30		B area ≤2	Excluded		
black and	color		0.30 <	Ф	0	0			
white spots,	line defect								
dents,	L (mm)	W (mm)		VA allowed number Non-		Non-VA allowed			
bumps, fibers, hairs,	/ W≤0.015 L≤8 0.015≤W≤0.08		15	be concentrated Excluded Excluded		Evaluded			
scratches,			0.015≤W≤0.08			Excluded			
etc.	1	/ W>0.08		08	In point form				
	Any two acceptable defects or 50mm spacing requirements Different color rolls are not allowed								
	Total number of single product points and linear defects N≤4								
	В	В	В	В					
	В	Α	А	В					
	В	А	А	В					
	В	В	В	В					



5.3 Cover Criteria

Elatness L≤10, A≤3°, 10 < L≤20, A≤1.5°	ltem	CRITERIA (mm)						
Flatness Point 3 Printing area has obvious light-leaking phenomenon caused by scratching is not acceptable. Printing pinhole/transmission ⊕≤0.30 is acceptable; regardless of the number, but not allowed to be concentrated. Cover window area edge printing raised or indented, width is not more than 0.2 is acceptable. Cover printing in the dirt, the shadow, is not acceptable; may refer to limit sample. Color, font, position, size conform to the requirements of the drawings or samples. Even transmission of light; refer to limit sample. There shall be no ghosting, defect; refer to limit sample.	Logo Printing Tilt Angle	L≤10, A≤3°, 10 < L≤20, A≤1.5°						
not acceptable. Printing pinhole/transmission: Φ≤0.30 is acceptable; regardless of the number, but not allowed to be concentrated. Cover window area edge printing raised or indented, width is not more than 0.2 is acceptable. Cover printing in the dirt, the shadow, is not acceptable; may refer to limit sample. Color, font, position, size conform to the requirements of the drawings or samples. Even transmission of light; refer to limit sample. There shall be no ghosting, defect; refer to limit sample.	Flatness	OK; H > 0.25%, NG. Pont 8 Pont 2 Pont 3						
LOGO Printing Samples. Even transmission of light; refer to limit sample. There shall be no ghosting, defect; refer to limit sample.	BM Printing Area	not acceptable. Printing pinhole/transmission: Φ≤0.30 is acceptable; regardless of the number, but not allowed to be concentrated. Cover window area edge printing raised or indented, width is not more than 0.2 is acceptable. Cover printing in the dirt, the shadow, is not acceptable; may refer to limit						
	LOGO Printing	samples. Even transmission of light; refer to limit sample.						
· ·	CNC edge serrated							

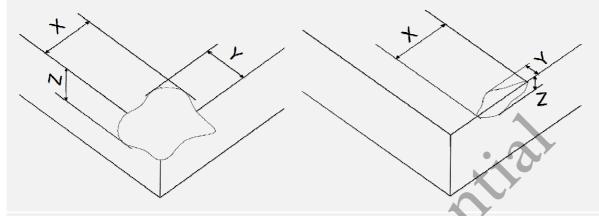


5.4 Cover Glass Chipping

Edge and corner of the front fragment does not allow;

Corner fragment : $X \le 0.5 \text{mm}$, $Y \le 0.5 \text{mm}$ and $Z \le 1/2 \text{GT}$, viewed from the front is light-leaking, acceptable number per side for three, more than 20 mm spacing requirements.

(Remark: If the chipping seriously affects the product's features, T / P is non-conforming.)



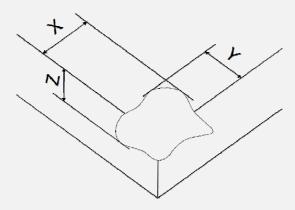
Cracking: T/P is regarded as defective.



5.5 Sensor Glass Chipping

Corner fragment : $X \le 3.0 mm$, $Y \le 3.0 mm$ and $Z \le GT$, it is ignored.

(Remark: If the chipping seriously affect the product's features, T / P is non-conforming.)



Side fragment : $X \le 4.0mm$, $Y \le 2.0mm$ and $Z \le GT$ it is ignored.

(Remark: If the chipping seriously affect the product's features, T / P is non-conforming.

Cracking: T/P is regarded as defective.



5.6 PET Protective Film

CRITERIA (mm)		DECISION	
Dot-like Foreign Matter	Ф≤0.25	Excluded, but cannot be concentrated	
	0.25 < Φ≤0.35	10	
	Ф>0.35	0	
Air bubble Concave and convex point	Ф≤0.5	Excluded, but cannot be concentrated	
	0.5<Φ≤1.0	7	
	Ф>1.0	0	
Scratch	W<0.05 , L≤20	Excluded, but cannot be concentrated	
	0.05≤W≤0.1,L≤15	10	
	W>0.1	0	
Note: any two acceptable defects spacing requirement ≥20mm			

5.7 Others

 This specification is considered as basic on the products, but details are subject to discussion upon individual customer requirement.



cribes the

This chapter describes the reliability test for touch panel

6

Reliability Test



6 Reliability Test

Scope :

- 1) The following touch screen reliability test should be carried out after placing the screen on the plate in a non-powered state.
- 2) The following touch screen reliability test should be carried out in standard environment (23°C±5 °C、65%RH±10%RH and 860-1060hPa), unless there are special requirements or conditions otherwise specified.

6.1 Environment Test

6.1.1 Heat Resistance

The requirements in "4.2 Electric characteristics", "Operation force" of the item "4.3
Mechanical characteristics" shall be satisfied after exposing samples at 70°C for 240h,
and each item should be measured after exposing them in normal temperature and
humidity for 24h.

6.1.2 Cold Resistance

• The requirements in "4.2 Electric characteristics", "Operation force" of the item "4.3 Mechanical characteristics shall be satisfied after exposing samples at -20°C for240h, and each item should be measured after exposing them in normal temperature and humidityfor 24h.

6.1.3 Temperature and Humidity Resistance

● The requirements in "4.2 Electric characteristics", "Operation force" of the item "4.3 Mechanicalcharacteristics" shall be satisfied after exposing samples at 60°C,90%RH for 240h for 1 cycle, and each item should be measured after exposing them in normaltemperature and humidity for 24h.

6.1.4 Thermal Shock

The requirements in "4.2 Electric characteristics", "Operation force" of the item "4.3 Mechanical characteristics" shall be satisfied after exposing samples at -20°C(30min) to 70 °C (30 min) for 10 cycles and each item should be measured after exposing them in thesamples to normal temperature and humidity for 24 h.



6.2 Endurance Test

6.2.1 Flexible Pattern Heat Seal Peeling Strength Test

- X: 1000g (peeling by 180°)
- Y: 500g (peeling upward by 90°)
- Z: 150g (peeling for being vertical with x and y direction)
- Note: speed 25mm/min
- The requirements in the item "4.2 Electric characteristics" shall be satisfied.

6.2.2 Flexible Pattern Bending Resistance Test

Bending 3 times or more by bending radius R1mm. The requirements in the item "4.2 Electric characteristics" shall be satisfied.

6.2.3 Flexible Pattern Resistance to Inserting

• Inserting and removing the FPC from connector at least 5 times. The requirements in "4.2 Electric characteristics", "Operation force" of the item "4.3 Mechanical characteristics" and "4.4 Light transparency" shall be satisfied.

6.2.4 Impact Resistance Test

• Using a 227g, Φ38mm ball, that is dropped from a vertical height of 50cm height to the of the product once, the glass is not broken or damaged.

6.2.5 Packaging Drop Test

 No damage to the product when the biggest side of package is dropped 2 times from 50cm height (once each on upper and lower surfaces).
 (Remark: This item only describes standard testing protocol. Testing is carried out in accordance with customer special requirements, and different product structures and thicknesses).





This chapter describes of storage, cleaning, assembly, operation and other matters needing attention

Product Handling and Usage Instructions



7 Product Handling and Usage Instructions

Projected capacitive touch screens are composed primarily of glass and as such should be handled with caring during all stages of storage, assembly, cleaning, etc. The product should not be dropped or handled roughly; all work surfaces should be kept clean and free of dust and dirt to prevent scratching. To avoid product damage or malfunction, please adhere to the directions below.

7.1 Storage

- 1) We suggest the product should be kept at a temperature of 23±3°C and humidity of 40%~70%RH. The product storage period should not be more than 6 months.
- 2) It is suggested to keep the materials no more than 3 months in normal conditions (indoors, normal heat and humidity conditions).
- 3) Touch panel should be kept away from chemicals such as acidic or alkaline products, as the damage occurring from contact could affect touch panel function. Touch panels should never be stored in an environment where condensation can form.
- 4) Do not store a touch panel in direct sunlight.
- 5) Touch screens should be stored in original packaging.

7.2 Cleaning

- 1) When cleaning the touch panel, refrain from using any kind of strongly acidic, alkaline or organic chemical solvent.
- 2) In case the panel requires cleaning, the use of neutral detergent or isopropyl alcohol is suggested.
- 3) When cleaning the touch panel, always use a soft cloth to avoid abrasions.

7.3 Handling and Assembly

- 1) When handling the panel, gloves are recommended both to avoid fingerprints, dirt or particles from adhering to the glass and also to avoid injury to the handler from sharp edges.
- 2) When handling the panel, hold it by the edge of the glass with the sensor facing upwards in order to avoid the sensor becoming scratched or dirty.
- 3) The panel should be handled by its edges and contact with the viewing area should be avoided in order to avoid affecting product transparency or display transmission.
- 4) When assembling the glass panel, do not use excessive force to bend or twist the panel; this may result in the panel becoming deformed.
- 5) When handling the FPC or COF, excessive pulling force, strain or tension must be avoided in order to prevent damage or product defects.
- 6) Once removed from the original package, touch screens are not to be stacked. The edges may cause scratching.
- 7) Do not stack heavy objects on the touch screen.

7.4 Operation

- 1) The panel must be operated in a stable environment; abrupt change of the environmental conditions may cause the malfunction of the panel.
- 2) In order to guarantee stable performance of all functions of a touch panel, please make sure that system is grounded or a power adapter is connected correctly to ground loop (Connection to earth ground is suggested).
- 3) Do not insert or remove the interface connector while the touch panel is operating.
- 4) Please avoid any sharp edged or hard objects hitting the touch panel when in operation.



This chapter describes the Rule of Serial Number

Regulation of markingcode



8 Regulation of marking code

Α В D Ε

Notes:

A: Customer Code

B: Product size (In Diagonal Inches)

C: Product structure (PG=1 / GG=2)

D: Product Viewing Area Proportion (S = Standard / W = Wide Format)

E: Product Model Number

.apacitive For Example: "DY2152W-1471" means a 21.5-inch Widescreen projected capacitive GG screen produced by ACDC, model number 1471.



ns packing

This chapter contains packing

Packing Specification



9 Packing Specification

9.1 Packing method

☑ 单纸箱(single carton box) □ 双层纸箱(double carton box) □ 木箱(wooden box)

9.2 Inner packing



9.3 Exterior packing



final big box(10PCS)

9.4 Label

日期:	年	月日
供应商:	数量:	5件
订单号:		
机种编号:		

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This chapter contains attachments

70 Attachment

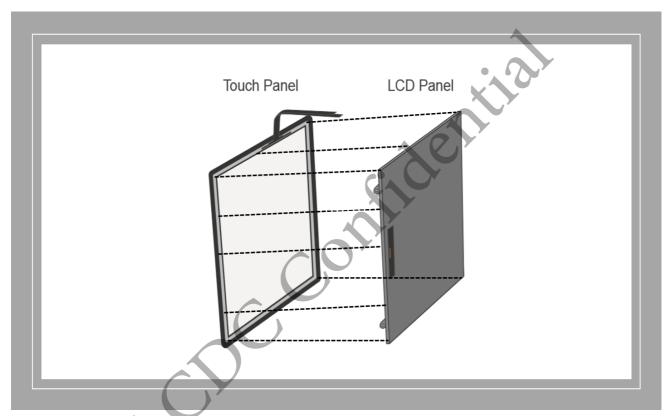


10 Attachment

10.1 Touch Panel & LCD Assembly

ACDCProjected capacitive touch screens support wide range of LCD types to be installed, however you may concern following factor while your installation process.

The recommended distance between Touch Panel & LCD screen after installation could be 1mm at least or 2mm above in order to prevent fromsensor patterns being interfered by LCD noise.

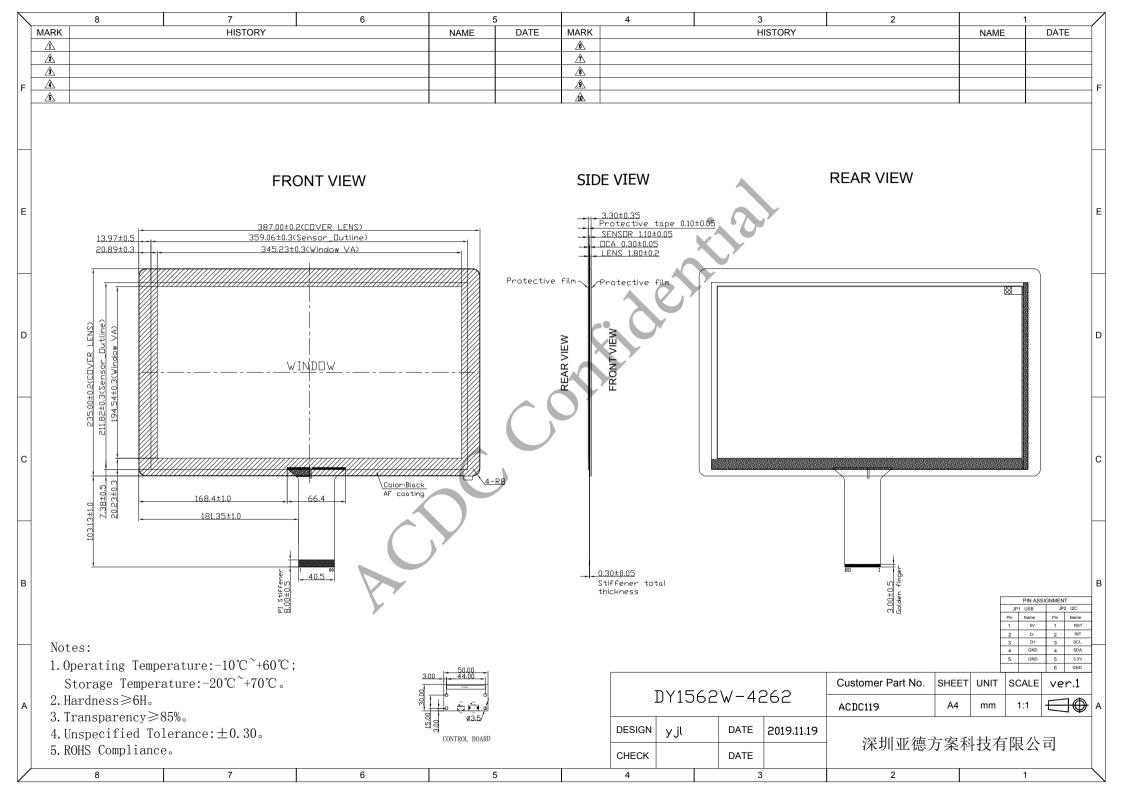


10.2Product pictures

Front Back

10.3 Engineering/ Mechanical Drawing





SW4101DS-DY20

ACDC® LG-Siliconworks SW4101D Projected Capacitive Multi-Touch Controller board

Approval Sheet

Ver. 1.2



Revision History

Date	Version	Description
2018-04-25	V1.0	First version
2018-07-02	V1.1	Change TVS
2018-04-30	V1.2	Add second source of LDO in BOM



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Introduction

Shipping Damage

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Warranty

 If failure occurs during the warranty period of the product, please contact your retailer from which the product was purchased.

Safety Information

- To avoid short circuits, keep paper clips, screws, and staples away from connectors, slots, sockets and circuitry.
- Avoid dust, humidity, and temperature extremes. Do not place the product in any area where it may become wet.
- Place the product on a stable surface.
- If you encounter technical problems with the product, contact a qualified service technician or your retailer.



The symbol of the crossed out wheeled bin indicates that the product (electrical and electronic equipment) should not be placed in municipal waste. Check local regulations for disposal of electronic products.





This chapter describes the touch controller IC features and the new technologies it supports.

Touch Controller IC Specification

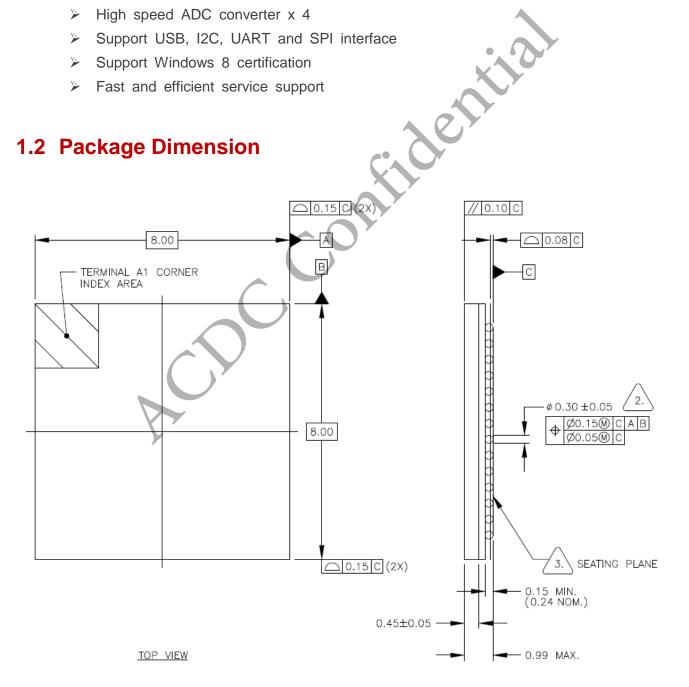


1.1 Main features of Controller IC

Key feature

- > The IC architecture is Differential + CDM, has strong anti-interference ability and sensor pattern compatibility.
- Max Rx channel number is 47, max Tx channel number is 33
- Max size support up to 15"
- Using TDMA hardware algorithm, the algorithm is more efficient and accurate
- > Using frequency hopping algorithm to automatically switch frequency when encoun tering interference
- > High speed ADC converter x 4
- > Support USB, I2C, UART and SPI interface
- Support Windows 8 certification
- > Fast and efficient service support

1.2 Package Dimension





e touch

This chapter describes the touch controller Board features

2

Touch Control Board Specification



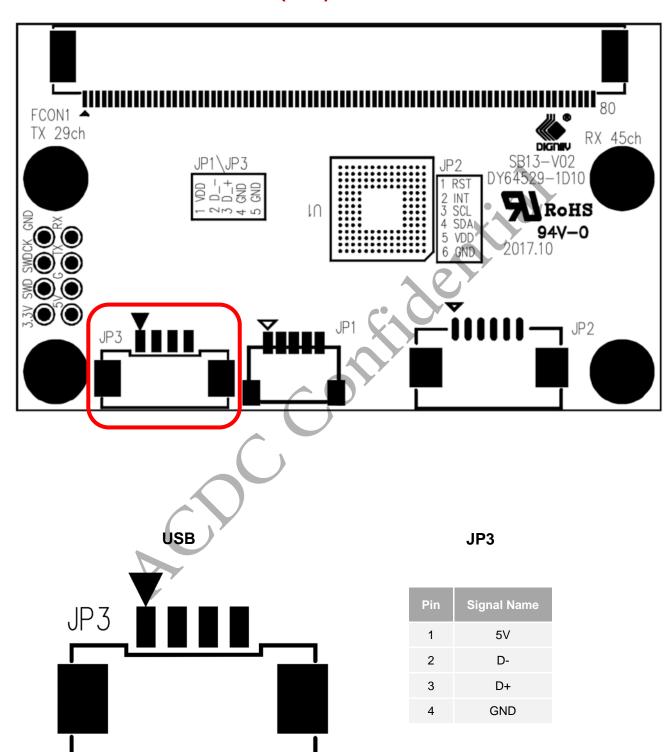
2.1 Specification

Features	Descriptions					
Circuit Board Dimension	30mm × 50mm					
PCB Thickness	1.6T SW4101D (160 BGA)					
IC						
FW	N/A					
Channels	Max.Tx:29 Rx:45 channels					
Input Voltage	Typical 5V					
	Line Drawing Accuracy:1pt ±1mm Offset/10mm					
Lincovity/Accuracy	Touch(point)Accuracy:1pt ±1mm					
Linearity/Accuracy	(Refer to Microsoft Windows 8 Logo regulation and channel					
	pitch should be 5mm)					
Operating Temperature	-40 to 85 °C					
Storage Temperature	-40 to 85. ℃					
Relative Humidity	95% at 60 °C, RH Non-condensing					
Interface	USB 1.1 / USB 2.0 Full-Speed Operation					
Report rate(points/sec)	>100Hz					
Response time	Average <25ms					
	ESD: Max. Air: ±30kV Connect: ±15kV					
EMS	EFT: Max ±4kV					
	CS: IEC61000-4-6 Level 3(Max: 10Vrms)					

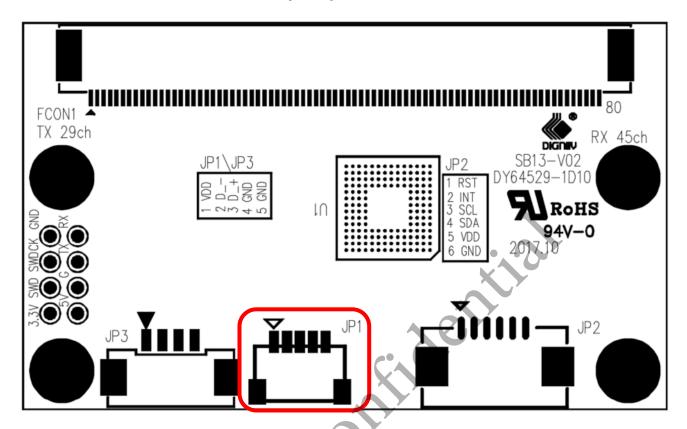


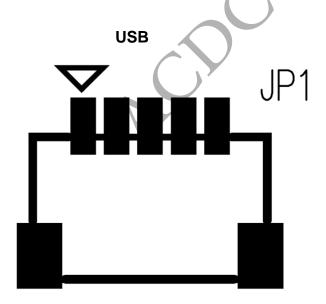
2.2 Connectors Description

2.2.1 USB Connector(JP3)



2.2.2 USB Connector(JP1)

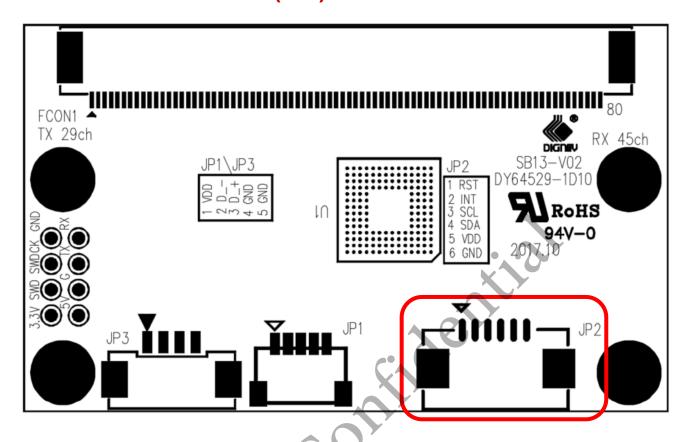


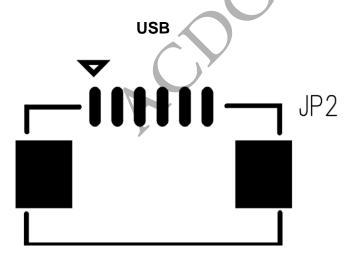




Pin	Signal Name
1	5V
2	D-
3	D+
4	GND
5	GND

2.2.3 I2C Connector(JP2)

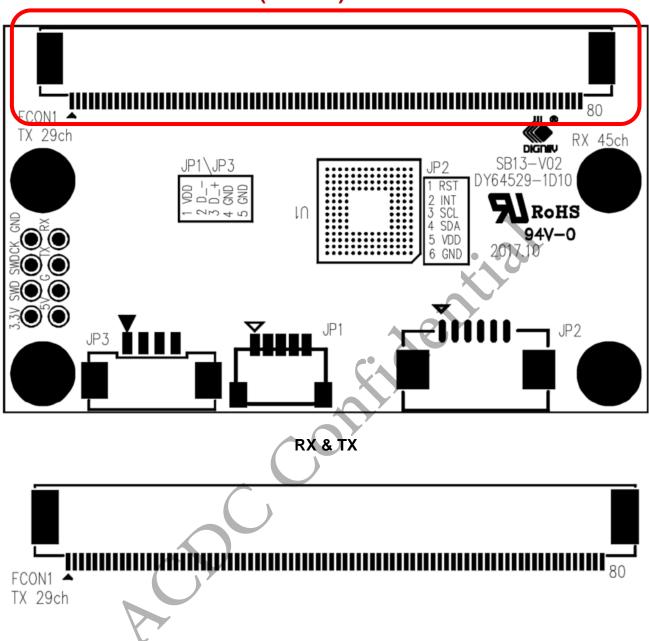






Pin	Signal Name
1	RST
2	INT
3	SCL
4	SDA
5	3.3V
6	GND

2.2.4 RX & TX FCON(FCON1)



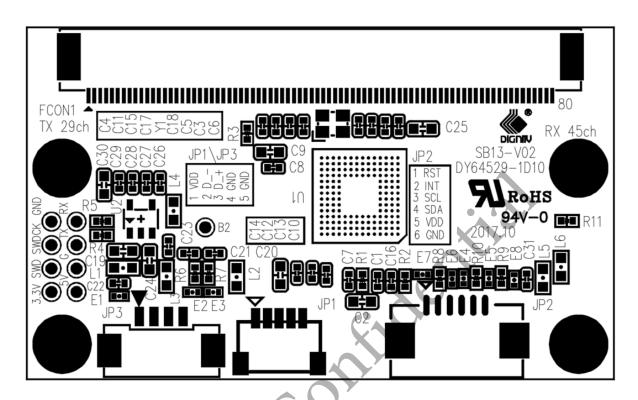
FCON1

Pin	Signal Name						
1	GND	21	TX20	41	RX07	61	RX27
2	TX01	22	TX21	42	RX08	62	RX28
3	TX02	23	TX22	43	RX09	63	RX29
4	TX03	24	TX23	44	RX10	64	RX30
5	TX04	25	TX24	45	RX11	65	RX31
6	TX05	26	TX25	46	RX12	66	RX32
7	TX06	27	TX26	47	RX13	67	RX33
8	TX07	28	TX27	48	RX14	68	RX34
9	TX08	29	TX28	49	RX15	69	RX35
10	TX09	30	TX29	50	RX16	70	RX36
11	TX10	31	GND	51	RX17	71	RX37
12	TX11	32	GND	52	RX18	72	RX38
13	TX12	33	GND	53	RX19	73	RX39
14	TX13	34	GND	54	RX20	74	RX40
15	TX14	35	RX01	55	RX21	75	RX41
16	TX15	36	RX02	56	RX22	76	RX42
17	TX16	37	RX03	57	RX23	77	RX43
18	TX17	38	RX04	58	RX24	78	RX44
19	TX18	39	RX05	59	RX25	79	RX45
20	TX19	40	RX06	60	RX26	80	GND



2.3 2D Placement Drawing

TOP VIEW



BOTTOM VIEW



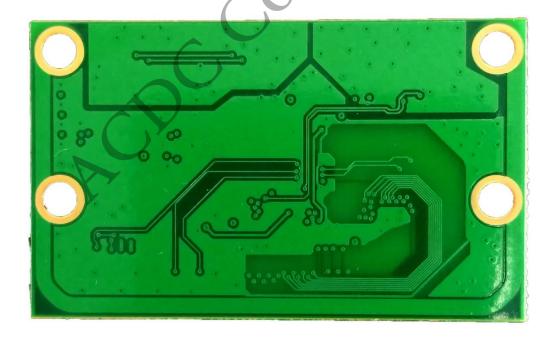


2.4 Photos

TOP VIEW

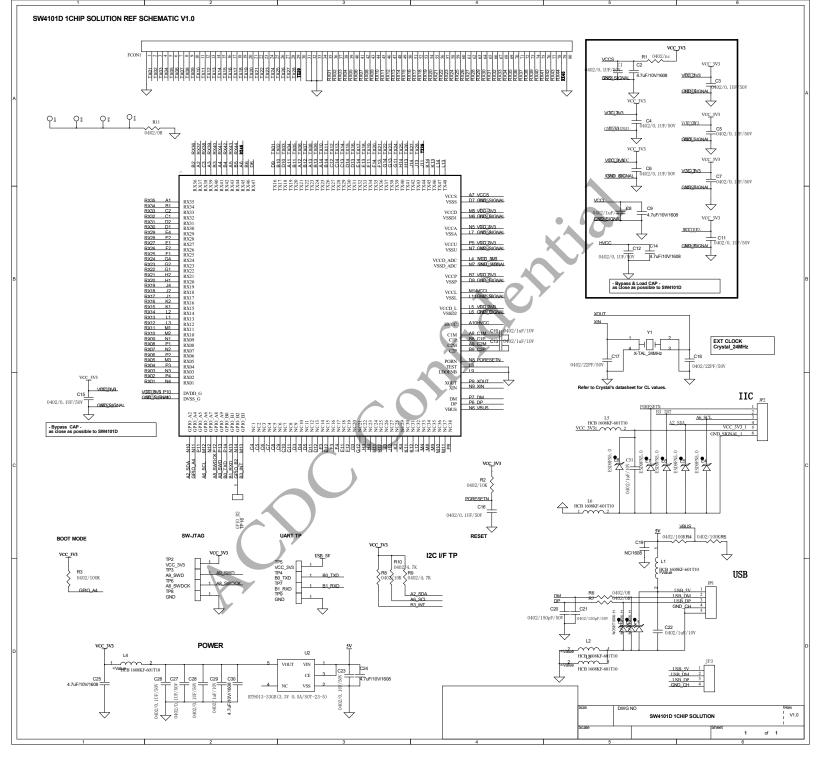


BOTTOM VIEW



2.5 Schematics





2.6 Bill of Material List

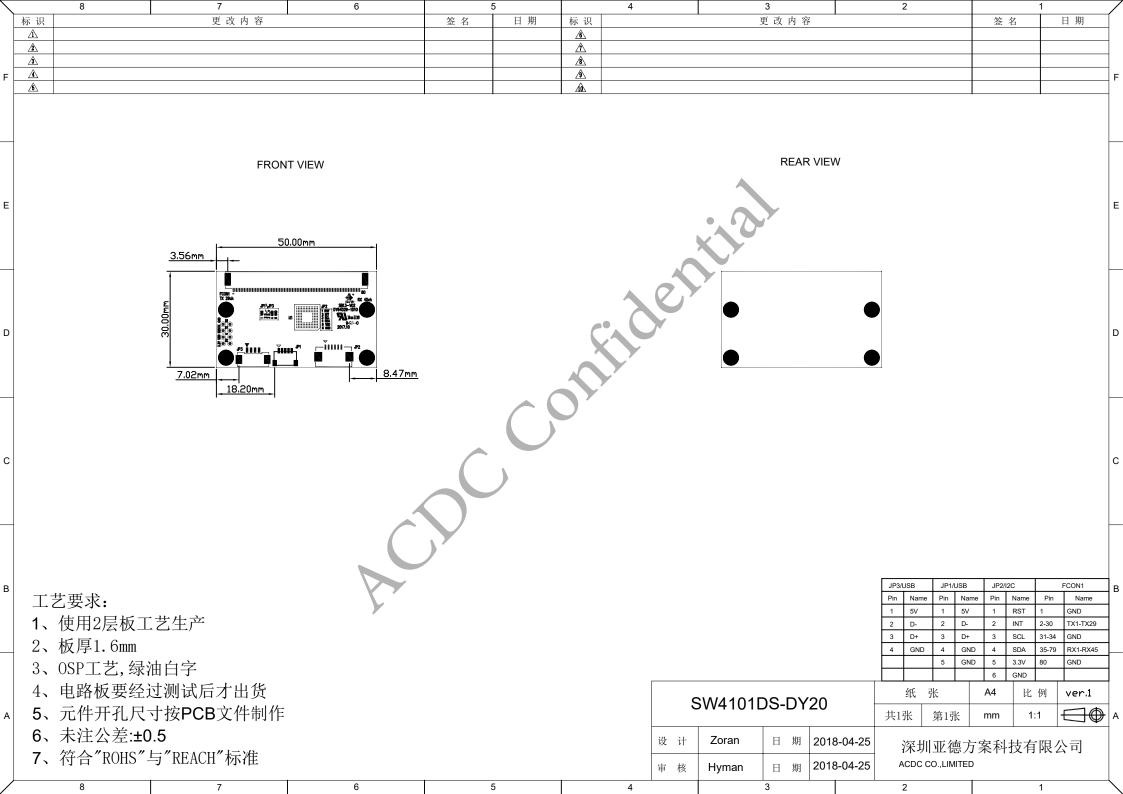


2.7 Reliability Test

Number	Test Item	Test Content	Standard
1	Low Temperature Test	-5°C/ 24hrs test in charge state	IEC60068-2-1 Test Ab: Cold Test.
2	High Temperature Test	65°C/24hrs test in charge state	IEC 60068-2-2 Test Bb: Dry Heat Test.
3	High Temperature & Humidity Test	65°C, 95% / 24hrs test in charge state	IEC 60068-2-2, Test Bb: Dry Heat Test. IEC 60068-2-3, Test Ca: Damp Heat steady state Test.
4		-40°C/ 24hrs for storage test.	IEC 60068-2-1 Test Ab: Cold test
5	Storage test	85°C, 95% / 24hrs for storage test.	IEC60068-2-56, Test Cb: Damp Heat Steady State Test
6	Package drop test	One corner, three edges, six faces.	ISTA 2A, IEC-60068-2-32 Test Ed
7	Electrostatic Discharge Immunity Test (ESD)	Air: +/-15kV Contact: +/-8kV	IEC61000-4-2 Electrostatic Discharge Immunity Test

2.8 Engineering Drawing





e continue natival.

This chapter describes the Packing Information

3

Packing Information



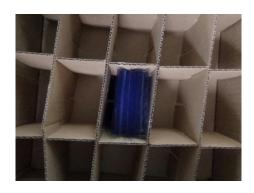
3.1 Packing Method



*Put in to ESD BAG

*1 band tied up 10 ESD BAG

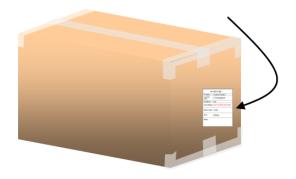




*Full control board on the partition
*Lay a layer (360pcs/box)



(put an empty tray at the top)*Put the PAD at the Top of the box.



- *Use tape to seal the box.
- *Paste the label on the side of carton.



3.2 Packing Box Label

CWA	11	\cap 1	DS-	^{-}DI	790	A
OW4	ΗI	UΙ	179-	ונו־	L Z U	-A

Product :	Controller Board
Customer type :	SW4101DS-DY20-A
QTY :	

3.3 Carton Photo

Change content:





Des the touch

This chapter describes the touch controller ROHS

4

Touch Control Board ROHS



환경유해물질 성분분석표 环境有害物质 成分分析表

업체명 供应商名		전화번호 电话号码	
작성자 制作者	Ouyang	E-mail	

										BUYER		㈜ 신흥정밀	
재질	품 명	A-1 P-1	제조사	제조사 함유비율含有比率(PPM)					▲ 성적서 번호 성적서 작성일				
분류 材质分类	品名 (Parts Name)	料号 (Part NO.)	供应商 (Maker)	Cd (100)	Pb (1000)	Hg (1000)	Cr6+ (1000)	PBBs (1000)			SGS No (Report No.)	SGS 报告日期 (Date.)	リ고 备注
均质	贴片电容	0402,0.1uF/104/25V,±10%	YAGEO	N.D	N.D	N.D	N.D	N.D	N.D	•	KA/2018/10340	2018/1/19	
均质	贴片电容	0603,4.7uF/475/10V,±10%	SANMSUNG	N.D	N.D	N.D	N.D	N.D	N.D	F69010	1/LF-CTSAYSS17-59370	2017/11/17	
均质	贴片电容	0402,1uF/105/10V,±10%	SANMSUNG	N.D	N.D	N.D	N.D	N.D	N.D	F69010	1/LF-CTSAYSS17-59371	2017/11/17	
均质	贴片电容	0402,22pF/220/50V,±5%	WALSIN	N.D	N.D	N.D	N.D	N.D	N.D		CE/2018/11523	2018/1/12	
均质	贴片电容	0402,150pF/151/50V,±10%	WALSIN	N.D	N.D	N.D	N.D	N.D	N.D		CE/2018/11523	2018/1/12	
均质	TVS 管	N05BT1006-H	Formosa	N.D	N.D	N.D	N.D	N.D	N.D		CE/2018/11404	2018/1/12	
均质	连接器	1.0T-1-5AW条形卧式贴片/5P,1.0mm	杨睿电子					Y		Accessory			
均质	连接器	1.25MM 4pin 卧式	杨睿电子				- 0		,	Accessory			
均质	连接器	(下接,翻盖)1.0,6P	杨睿电子							Accessory			
均质	连接器	(下接,翻盖)0.5,80P	杨睿电子				V			Accessory			
均质	贴片磁珠	1608KF-601T10	TAI-TECH	N.D	N.D	N.D	N.D	N.D	N.D		CE/2017/C0633	2017/12/12	
均质	贴片电阻	0402,0Ω,±5%	WALSIN	N.D	N.D	N.D	N.D	N.D	N.D		CE/2017/86385A	2017/9/5	
均质	贴片电阻	4.7K/472,±5%	WALSIN	N.D	N.D	N.D	N.D	N.D	N.D		CE/2017/86385A	2017/9/5	
均质	贴片电阻	10K/103,±5%	WALSIN	N.D	N.D	N.D	N.D	N.D	N.D		CE/2017/86385A	2017/9/5	
均质	贴片电阻	0402,100K/104,±5%	WALSIN	N.D	N.D	N.D	N.D	N.D	N.D		CE/2017/86385A	2017/9/5	
均质	触控IC	SW4101D	SIW)					Accessory			
均质	LDO	RT9013-33GB	RICHTEK							Accessory			
均质	贴片晶振	2520/24MHZ/20PPM 20PF	JKX	N.D	N.D	N.D	N.D	N.D	N.D	CAI	NEC1726381506 AO1	2018\1\10	
均质	PCB	SW4101DS-DY20	欣磊欣	Accessory									

당사에서 납품하는 상기 품목에 대하여 사용되는 유해 물질은 목록표와 같음을 증명 합니다.

A4 (297*210)mm