Revision History

Item	Date	Revision NO.	Page	Description	Reason
1.	09/04/2020	H8811C		1st Issue	

Sample NO : H8811C	PRODUCT STANDARD SHEET	Publication date: 09/04/2020
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Attached

control board 規格書

1.Contants

This standard is for projected capacitive type touch panel that can be one module of LCD

2.General Standard Specification

Item	Specification	
Structure (not including liner)	Cover Glass	1.1 mm
	TOP OCA	0.1 mm
	TOP Silver	0.125 mm
	TOP ITO	
	TOP PET	
	BOT OCA	0.025mm
	BOT PET	0.05mm
	Total thickness	1.4 mm +/- 0.15
Operating Temperature Range	-20℃~+70℃,20%RH ~85%RH (Except for dew gathering.)	
Storage Temperature Range	-30℃~+80℃,20%RH ~90%RH (Except for dew gathering.)	
Light Transparency	85%min	
Package Drop	No damage to the product.(1corner edge, 2 ridges, 4 surfaces, drop from 50 cm height)	

3. Optical Characteristic.

(3-1) test by light measure device and the result should be 85% min.

4. Electrical characteristics

TBD

5.Reliability Test(Non operating.)

(5-1) High Temperature Test.

The requirements in 3 and 4 shall be satisfied after exposing at 80℃ for 240 hours and at normal temperature and humidity for 24 hours.

(5-2) Low Temperature Test.

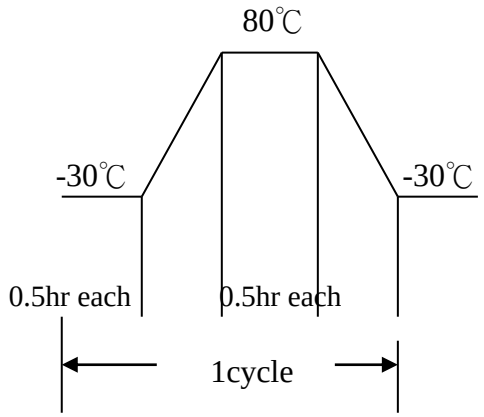
The requirements in 3 and 4,shall be satisfied after exposing at -30℃ for 240 hours and at normal temperature and humidity for 24 hours.

(5-3)High Temperature、High Humidity Test.

The requirements in 3 and 4,shall be satisfied after exposing at 60℃,90%RH for 240 hours(after dehumidifying in the chamber 40℃ and 50% max.) and at normal temperature and humidity for 24 hours.

(5-4)Thermal Shock Test.

The requirements in 3 and 4,shall be satisfied after exposing under the conditions between -30℃(0.5hr each) and 80℃(0.5hr each)by 50 cycles (taking out at 80℃) and at normal temperature and humidity for 24 hours.



6. Appearance Inspection Standard

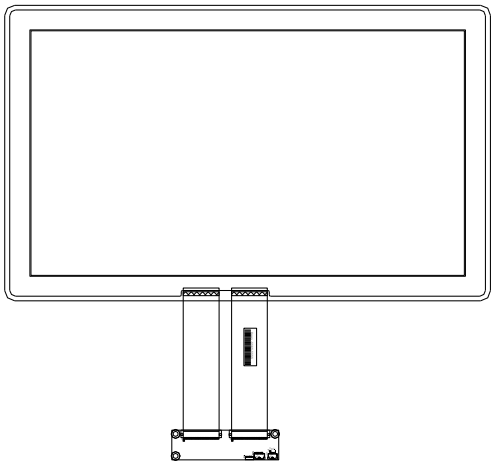
Unveil product appearance inspection standard and to assurance product quality Level.

(6-1).Scope：

TOUCH PANEL View area.

(6-2). Inspection Area(Inspection on front side only):

Appearance inspection of View area(VA) and black printing area are define at 6-5.



(6-3). Limit Sample:

If the definition of appearance inspection is out off the description mentioned in this specification, we will base on the both parties agreed limit sample. Both parties will have the same standard limit sample and the appearance definition will be based on the limit sample priority

(6-4). Inspection Conditions:

(a) The brightness in test site: 500Lux
(b) Inspection distance: 35cm ~ 50cm
(c) Visible Angle : 與玻璃面垂直
(d) Light Source: Be inspected under general daylight lamp.
(e) It’s should be used by module upper component or adapter.
(e)inspection background: using black and white background separately.

(6-5) Criteria

Based on above inspection condition, the defect can be found within 3 to 5 second is major defect.

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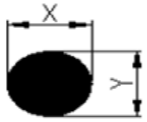
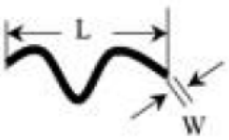
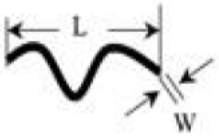
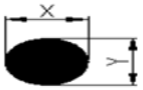
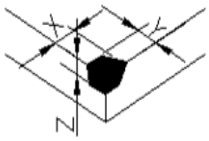
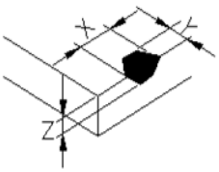
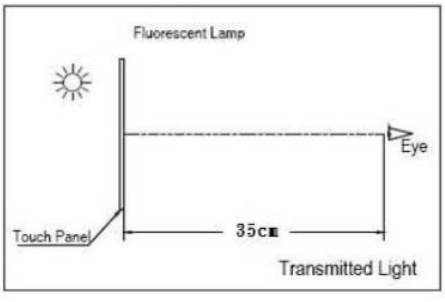
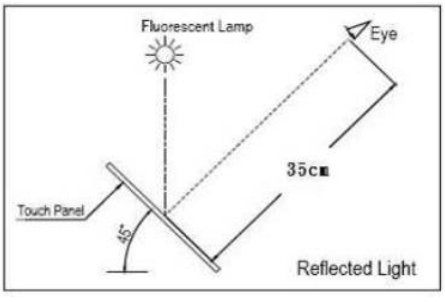
Defect item	Inspection Criteria	n (quantity)	Remark
Dot(黑白點)	D≦0.6mm	以下情況下不計	
	0.6mm<D≦0.9mm	N≦4 距離大於 5mm	
	D>0.9mm NG	NG	
Line particle(毛屑)	W≦0.15mm Ignore	以下情況下不計	
	0.15mm<W≦0.3mm,L≦25mm,	N≦4 距離大於 5mm	
	W＞0.3mm	NG	
Scratch(刮傷)	W≦0.15mm Ignore	以下情況下不計	
	0.15mm<W≦0.3mm,L≦25mm,	N≦4 距離大於 5mm	
	W＞0.3mm	NG	
Dent(凹凸點)	D≦3mm	以下情況下不計	
	D>3mm	NG	
Breakage at Corner(CG 崩角)	X≦0.3mm,Y≦0.3mm,Z≦1/2 T	以下情況下不計	
	0.3mm＜X≦1/2 T or 0.3mm＜Y≦1/2 T or 1/2T＜Z＜T	N≦4	
	X>1/2 T or Y>1/2 T or Z>T	NG	
Breakage at Edge(CG 崩邊)	X≦0.3mm,Y≦0.3mm,Z≦1/2 T	以下情況下不計	
	0.3mm＜X≦1/2 T or 0.3mm＜Y≦1/2 T or 1/2T＜Z＜T	N≦6	
	X>1/2 T or Y>1/2 T or Z>T	NG	
STAIN(髒污)	可清除的髒污可忽略		

未定義之不良項目以雙方同意之限度樣品為準

1.檢驗距離:35~50cm

2.檢驗秒數:10~30sec/pcs

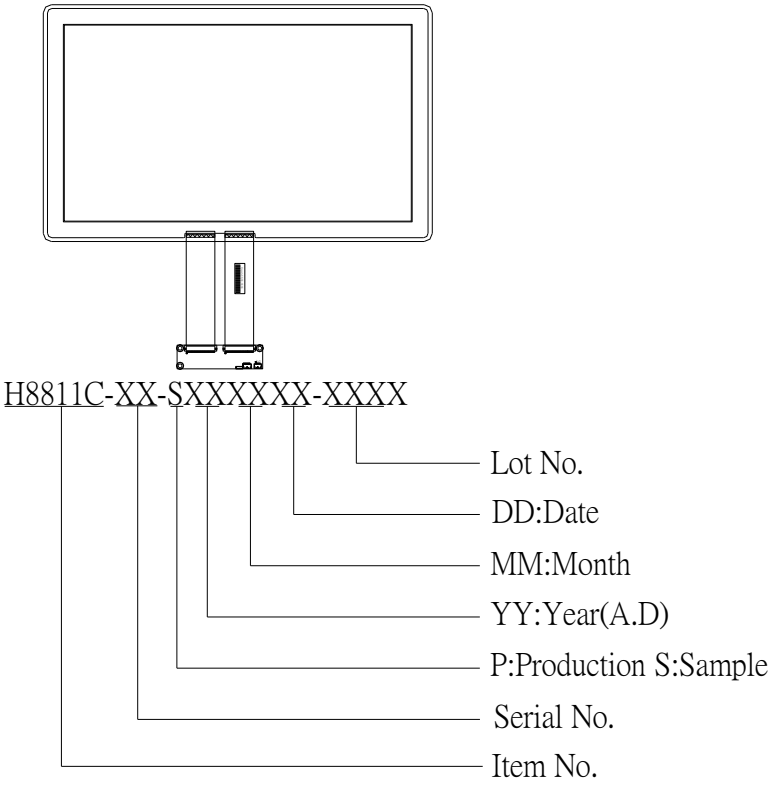




7. Package

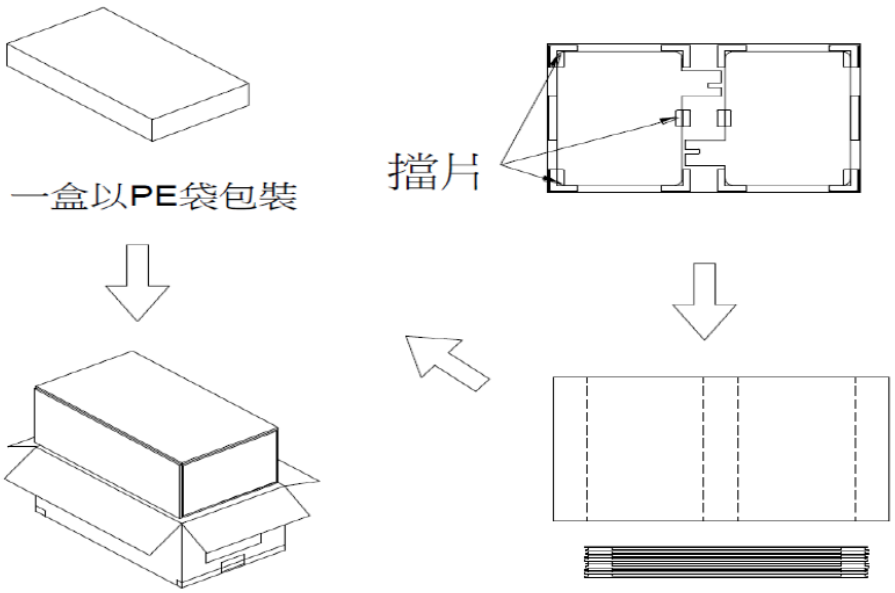
(7-1) The touch panel should be cover by protect film both sides before put into box.

(7-2) The Lot No. will be printed on the glass during the Silver Pattern Printing Process for future tracing. Please see attached drawing.



(7-3)Package

Using paper box to package, inside of box using PP tray.



(7-4)Transportation

Can not transport the product under the environment that may destroy the quality of product, such as, high humidity, extraordinarily high or low temperature.

8.Others.

(8-1) Any question about this standard should discuss each other and answer it.

(8-2) Any change of this standard should be approved by both parties. It can not be changed if not approved.

(8-3) If having difference between general standard and specific standard, we adopt specific standard.

(8-4) Providing one year warranty under the shelf life condition which meets the standard procedure and electrical properties. Ref.(8-5).

(8-5) This product should keep in the condition 10~69% RH, temperature between 10~35℃, away the sunlight directly. Please avoid prolonged exposure to sunlight

Avoid the heavy material stack above to prevent the ITO film distortion.

(8-6) Please put the carton down gently and prevent dropping the carton.

(8-7) The validity of this specification

a) This document would be considered as a temporary specification.

b) This document is considered as an official specification, when this file was sent for one month without debate or signed.

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9.**Return:**

(9-1) If received unsatisfied product, please contact with us within one month. If you would like to return the product, please keep the product in the original status. And send it back only touch panel itself.

(9-2) Product specification assures only the quality of touch panel itself.

(9-3) After carefully read product specification, please stamp with agree mark, and send it back tour sales department. Two months after production been issued, and dent out to you, if we still not get any response from you. We will assume that you understand and accept all contains of production specification.

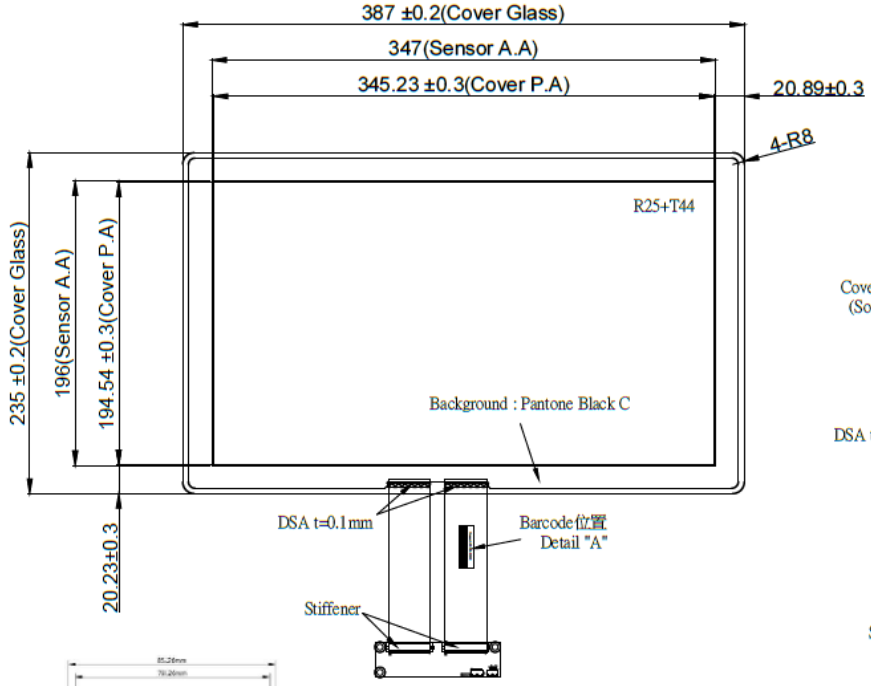
(9-4) YFO do not accept any RMA after FPC assembly process or front lens/cover/window lamination process by Customer.

(9-5) YFO does not accept any RMA which have been shipped over 1 month.

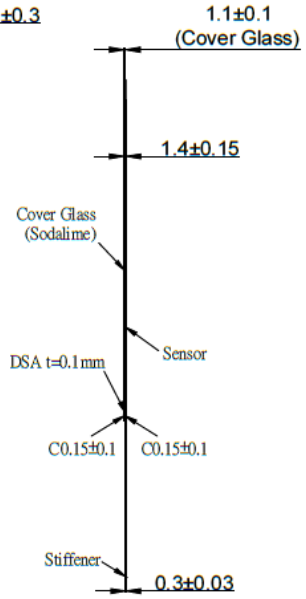
CUSTOMER NAME		CUSTOMER Ref. No.	15.6"
CUSTOMER'S APPROVAL		/ /	

NO.	Revision Record	Reviser	Date
1.	由H8811A-01(N1)變更玻璃厚度	Ada Liu	03 / 12 / 19
2.			
3.			

正



正 反



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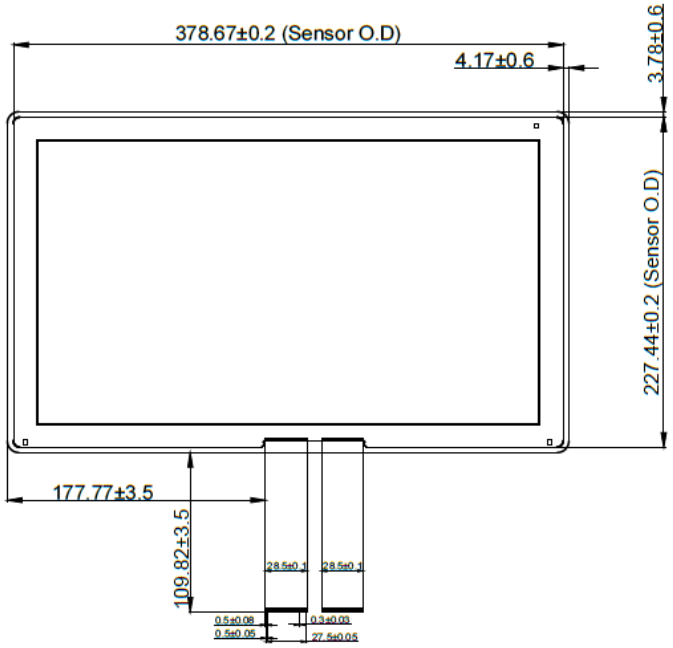
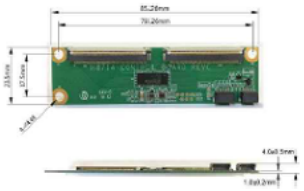
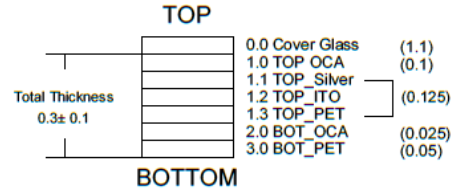




Barcode條碼編碼
code128 :30*10mm Detail "A"

YFO料號-年-週-流水碼
H8811C-XX-xx-0000~9999

備註: 產品與controller board一起出貨
無F/W為H0107需燒分位轉撥為HH8811A出貨



1.部品材料符合RoHS規定
2.部品材料不含鹵素物質

Elucidation	總成圖	Drive Model	Capacitance	Approved By	Gary Lin	03 / 12 / 19
Panel Size	387mm *235mm	Drive Voltage	NA	Checked By	Gary Lin	03 / 12 / 19
Viewing Size	345.23mm * 194.54mm	Operating Temp	NA	Design By	Ada Liu	03 / 12 / 19
Front Material/Thickness	ITO Film/0.125mm	Storage Temp	NA	Drawing By	Ada Liu	03 / 12 / 19
Rear Material/Thickness	NA	Connector	NA	Data Reserve		

avalue Technology Inc.

Sheet	1 / 1	Tolerance	±0.3	Unit	mm
Size	A4	Angles	±0.5°	Scale	1 / X

Pro (3)	
Model Number	H8811C
Drawing Number	H8811C-01

YW52H4564P5656 control board

Weida Hi-Tech

Projected Capacitive

Touch Panel Controller

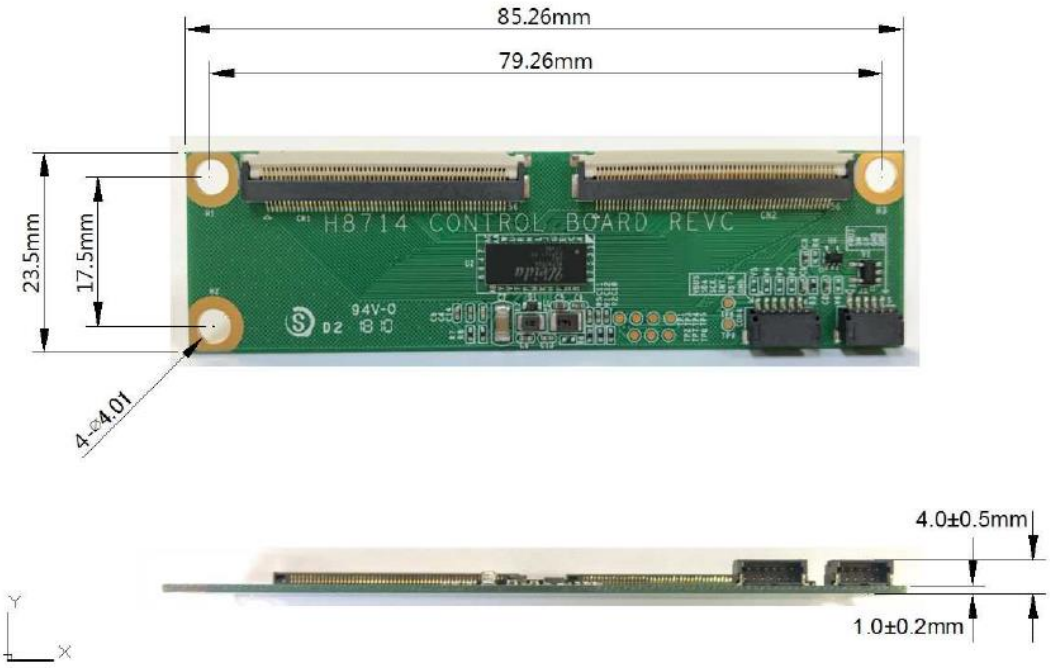
The P-Cap control boards from Weida Hi-Tech are designed for projective capacitive touch screen applicable to consumer , commercial and industrial markets which may need driver support as well as Windows OS. These control boards are also designed to operate in tighter environmental conditions like humidity, temperature and electro-magnetic noisy condition.

Since the performance of the IC controller embedded on the control board is designed to suit for all kinds of touch sensor stack up like GG, OGS, G1F, GFF and difference kinds of sensor materials of ITO, metal mesh , silver nano wire.

Before starting to choose the preferred products, below is the common feature/function supported.

- ✓ 10 fingers operation support
- ✓ Windows, Android and Linux driver support
- ✓ Flash programming tool support
- ✓ Touch module production tool support

YW52H4564P5656 Controller Board was developed based on WDT8752A. WDT8752A is Touch Controller with an enhanced analog front end (AFE) and digital front end (DFE) circuit including an HV charge driver on multi-touch capacitive panels.



- 85.26mmx23.5.mmx4mm
- 5PIN_1.0mm USB CONNECTOR*1 ACES 50224-00501-001
- 6PIN_1.0mm I2C CONNECTOR *1 ACES 50224-00601-001
- FFC-CONN 0.5MM_56P *2

]

OS Support Matrix

OS Version	Version	Interfaces
Windows	**Windows 7 or above (8.x, 10)**	USB/I2C
Linux	**Linux Kernel 2.4.x or above**	USB /I2C
Android	**Android 4.0 or above**	USB / I2C

Technical Specifications

Circuit Board Dimension	82.26mmx23.5.mm
Channels of Panel	Max.Tx:45 Rx:63 channels
Input Voltage	5V.
Operating Temperature	0 to 85 ℃
Storage Temperature	-40 to 90 ℃
Linearity	Line drawing accuracy :+/- 2mm
Report rate(points/sec)*	＞100 Hz
Response time	< 25 ms

FPC Pin Description

CN1					
PN		PN		PN	
1	GND	21	RX44	41	TX38
2	RX63	22	RX43	42	TX37
3	RX62	23	RX42	43	TX36
4	RX61	24	RX41	44	TX35
5	RX60	25	RX40	45	TX34
6	RX59	26	RX39	46	TX33
7	RX58	27	RX38	47	TX32
8	RX57	28	RX37	48	TX31
9	RX56	29	RX36	49	TX30
10	RX55	30	RX35	50	TX29
11	RX54	31	RX34	51	TX28
12	RX53	32	RX33	52	TX27
13	RX52	33	GND	53	TX26
14	RX51	34	TX45	54	TX25
15	RX50	35	TX44	55	TX24
16	RX49	36	TX43	56	TX23
17	RX48	37	TX42		
18	RX47	38	TX41		
19	RX46	39	TX40		
20	RX45	40	TX39		

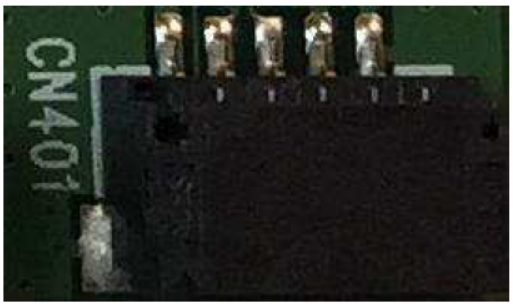
CN2					
PN		PN		PN	
1	TX22	21	TX2	41	RX18
2	TX21	22	TX1	42	RX19
3	TX20	23	GND	43	RX20
4	TX19	24	RX1	44	RX21
5	TX18	25	RX2	45	RX22
6	TX17	26	RX3	46	RX23
7	TX16	27	RX4	47	RX24
8	TX15	28	RX5	48	RX25
9	TX14	29	RX6	49	RX26
10	TX13	30	RX7	50	RX27
11	TX12	31	RX8	51	RX28
12	TX11	32	RX9	52	RX29
13	TX10	33	RX10	53	RX30
14	TX9	34	RX11	54	RX31
15	TX8	35	RX12	55	RX32
16	TX7	36	RX13	56	GND
17	TX6	37	RX14		
18	TX5	38	RX15		
19	TX4	39	RX16		
20	TX3	40	RX17		

Connector Pin Configuration

J3 USB connector

5PIN_1.0mm USB CONNECTOR*1

J3	
1	VDD
2	DM
3	DP
4	GND
5	GND



Con6 I2C connector

6PIN_1.0mm USB CONNECTOR

Con6	
1	VDD
2	SDA
3	SCL
4	INT
5	RST
6	GND