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4. Application

This specification is applied to the 15.6 inch FHD supported TFT-LCD module with projected capacitive touch (PCT), and can display true 16.2M colors. This module is composed of a 15.6" TFT-LCD panel, a driver circuit and backlight unit and used as the input devices for general electric appliances via both finger and Capacitive stylus pen.

5. Features

- 15.6" USB Interface Industrial Open Frame Monitor
- USB 3.0 Interface(USB 3.0 Type B)
- USB 3.0 Host(USB 3.0 Type A)
- Use Double Sided Tape Bonding Between PCT and LCM
- Use Double Sided Tape Bonding Between PCT and CG
- Projected Capacitive Touch
 - Multi Touch (Two points)
 - 4096 x 4096 resolution
 - CG Chemical Strengthening
- Support VESA mounting
- Build-in 4Ω 2W*2 Speaker
- Support OS:
 - Windows XP/VISTA/7/8/10
 - Ubuntu 16.04 LTS / 18.04 LTS

6. General Specifications

Item	Specifications	Unit
Screen Size	15.6 (Diagonal)	inch
Display Format	1920RGB(H)×1080(V)	dot
Active Area	344.16(H)×193.59(V)	mm
Pixel Pitch	0.17925(H)×0.17925(V)	mm
Pixel Configuration	RGB Vertical Stripe	-
Display Mode	AAS / Transmissive Mode / Normally Black	-
Surface Treatment	Clear(7H)	-
Viewing Direction	Full view angle	-
Outline Dimension	400.0(W)×260.0 (H)×44.1 (D)	mm
Weight	(3387)	-
RoHS Compliance	RoHS Compliance	-

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7. Absolute Maximum Ratings

7.1 Absolute Ratings of Environment

Item	Symbol	Value		Unit	Note
		Min.	Max.		
Storage Temperature	TST	-20	+70	°C	(1)(2)
Operating Ambient Temperature	TOP	0	+70	°C	(1)(2)

Note1: Background color changes slightly depending on ambient temperature.

This phenomenon is reversible.

Note2: Please refer to item of RELIABILITY.

7.2 Electrical Absolute Ratings

7.2.1 System Power Supply

(Ta=25±2°C, GND=V_{SS}=0V)

Item	Symbol	Value		Unit	Note
		Min.	Max.		
Power Supply Voltage	VIN	-0.3	13	V	-

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8. Electrical Characteristics

8.1 System Power Supply

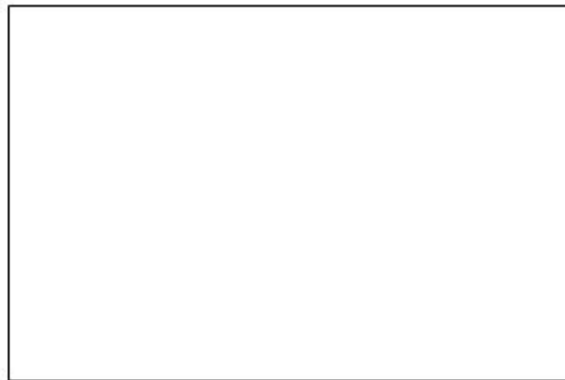
(Ta=25±2°C)

Item	Symbol	Value			Unit	Note
		Min.	Typ.	Max.		
Power Supply Voltage	VIN	11.5	12.0	12.5	V	(1)
Power Supply Current	IIN	-	1.4	1.96	A	(1)
LED Life Time(25°C)	-	50000	-	-	hr	(2)

Note:

- (1) The specified power consumption is under the conditions at VIN=12V, whereas a power dissipation check pattern below is displayed.

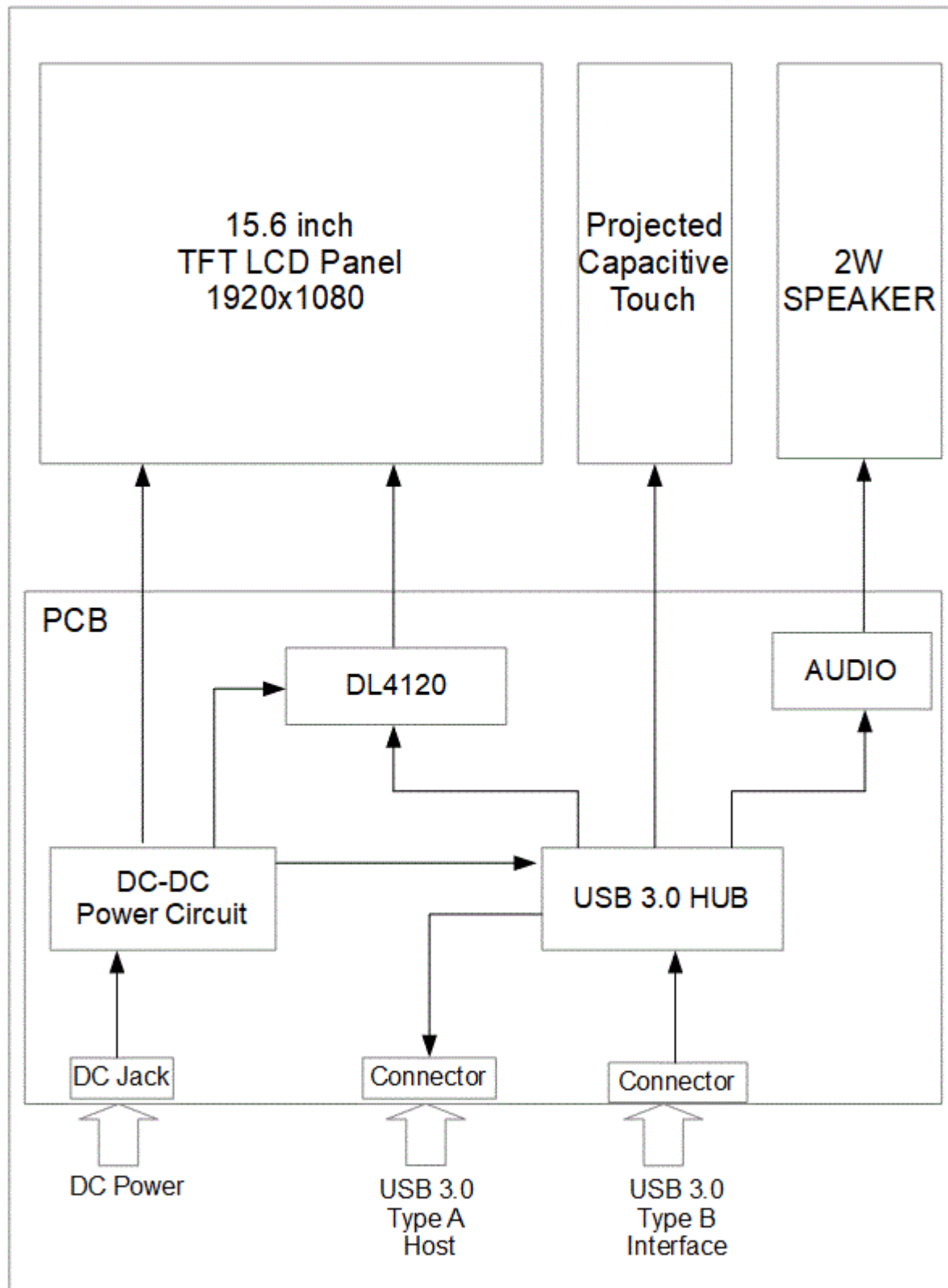
White Pattern / 255 Gray↵



Active Area↵

- (3) LED life time is defined as under 25±2°C, when the average brightness decrease to 50% of original brightness

9. Block Diagram



10. Input / Output Terminals Pin Assignment

Connector: USB 3.0 Type B Connector

No.	Symbol	No.	Symbol
1	VBUS	6	Transmit+
2	D-	7	GND
3	D+	8	Receive-
4	GND	9	Receive+
5	Transmit-		

Connector: USB 3.0 Type A Connector

No.	Symbol	No.	Symbol
1	VBUS	6	Receive+
2	D-	7	GND
3	D+	8	Transmit-
4	GND	9	Transmit+
5	Receive-		

Connector: DC Jack

No.	Symbol
1	VIN(Φ 2.0mm)
2	GND
3	GND

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11.User Guide For First Operation:

1. Go to Displaylink website below to download the newest drivers and install it.
<https://www.displaylink.com/downloads>
2. Use external power supply
3. Take USB 3.0 type B cable and connect from LCM to computer.
4. Wait for automatic installation of device driver by computer.

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12. Optical Characteristics

The optical characteristics should be measured in a dark environment (≤ 1 lux) or equivalent state with the methods shown in Note (4).

Item		Symbol	Conditions	Min.	Typ.	Max.	Unit	Note
Contrast Ratio		CR	$\theta_x=0^\circ, \theta_y=0^\circ$ Viewing Normal Angle	600	800	-	-	(2)
Response Time		$T_R + T_F$		-	25	35	ms	(3)
Luminance(Center)		Y		270	(360)	-	cd/m ²	(4)
Brightness uniformity		BUNI		70	-	-	%	(5)
Color Chromaticity	Red	R _x		0.602	0.652	0.702	-	(1),(4)
		R _y		0.288	0.338	0.388	-	
	Green	G _x		0.282	0.333	0.383	-	
		G _y		0.563	0.613	0.663	-	
	Blue	B _x		0.10	0.15	0.20	-	
		B _y		0.00	0.05	0.100	-	
	White	W _x		0.263	0.313	0.363	-	
		W _y		0.279	0.329	0.379	-	
Viewing Angle	Horizontal	θ_{x+}	CR $\geq$ 10	80	(85)	-	deg.	
		θ_{x-}		80	(85)	-		
	Vertical	θ_{y+}		80	(85)	-		
		θ_{y-}		80	(85)	-		

16.Outline Drawing

