

■ Preliminary Specifications

☐ Final Specifications

Module	15.6 Inch Color TFT-LCD
Model Name	G156HAB01.0
Note	oTP display

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Customer	Date	Approved by	Date
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Customer's	sign back page	General Display AU Optronics	
		idential Internal	
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	For 1809	01	



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Record of Revision

Version	Date (yyyy/m/d)	Page	Old description	New Description
0.1	2018/04/30	All	First Edition	W
0.2	2018/04/30	6	TPIC=Ilitek 2315	TPIC=EETI 3200
		6		Correct OD for cover lens
0.3	2018/07/19		100	Correct some wrong information
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			201	
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			2012	
				ial use only



1. Operating Precautions

- Since front polarizer is easily damaged, please be cautious and not to scratch it. 1)
- 2) Be sure to turn off power supply when inserting or disconnecting from input connector.
- 3) Wipe off water drop immediately. Long contact with water may cause discoloration or spots.
- 4) When the panel surface is soiled, wipe it with absorbent cotton or soft cloth.
- 5) Since the panel is made of glass, it may be broken or cracked if dropped or bumped on hard surface.
- 6) Since CMOS LSI is used in this module, take care of static electricity and insure human earth when handling.
- 7) Do not open nor modify the module assembly.
- 8) Do not press the reflector sheet at the back of the module to any direction.
- 9) In case if a module has to be put back into the packing container slot after it was taken out from the container, do not press the center of the LED Reflector edge. Instead, press at the far ends of the LED Reflector edge softly. Otherwise the TFT Module may be damaged.
- 10) At the insertion or removal of the Signal Interface Connector, be sure not to rotate nor tilt the Interface Connector of the TFT Module.
- 11) TFT-LCD Module is not allowed to be twisted & bent even force is added on module in a very short time. Please design your display product well to avoid external force applying to module by end-user directly.
- 12) Small amount of materials without flammability grade are used in the TFT-LCD module. The TFT-LCD module should be supplied by power complied with requirements of Limited Power Source (IEC60950-1 or UL60950-1), or be applied exemption.
- 13) Severe temperature condition may result in different luminance, response time.
- 14) Continuous operating TFT-LCD Module under high temperature environment may accelerate LED light bar exhaustion and reduce luminance dramatically.
- 15) The data on this specification sheet is applicable when TFT-LCD module is placed in landscape position.
- stick, it fixed pat 16) Continuous displaying fixed pattern may induce image sticking. It's recommended to use screen saver or moving content periodically if fixed pattern is displayed on the screen.



2. General Description

G156HAB01.0 is a Color Active Matrix Liquid Crystal Display composed of a TFT-LCD display, a driver circuit, and a LED backlight system. The screen format is intended to support 16:9 FHD (1920(H) x 1080(V)) screen and 16.2M colors (RGB 6-bits+FRC) with LED backlight driving circuit. All input signals are eDP (Embedded DisplayPort) interface compatible.

G156HAB01.0 is designed for a display unit of notebook style personal computer and industrial machine.

2.1 Display Characteristics

The following items are characteristics summary on the table under 25 $\,^{\circ}\mathrm{C}\,$ condition:

Items	Unit	Specifications					
Screen Diagonal	[mm]	15.6"					
Active Area	[mm]	344.16 x 193.59					
Pixels H x V	20	1920x3(RGB)	1920x3(RGB) x 1080				
Pixel Pitch	[mm]	0.17925 x 0.1	7925		- 41		
Pixel Format		R.G.B. Vertica	al Stripe		0,,		
Display Mode		Normally Blac	k	. 105			
Response Time	[ms]	25 Typ.	2	wa,			
Nominal Input Voltage VDD	[Volt]	+3.3 Typ.	te				
Power Consumption	[Watt]	TBD max					
Weight	[Grams]	TBD Max.	120				
	100	Mr.	Min.	Тур.	Max.		
Physical Size	P	Length	350.36	350.66	350.96		
Include bracket.	[mm]	Width	215.65	216.15	216.65		
	2018	Thickness			3.2(Panel Side) 3.4(PCBA side)		
Electrical Interface	1	eDP1.2 (2 lan	e)		•		
Surface Treatment_LCD		НС			Man		
Surface Treatment_Cover lens		None					
Support Color		16.2M colors (RGB 6-bit+FRC)					
Temperature Range Operating Storage (Non-Operating)	[°C]	0 to +50 -20 to +60					
RoHS Compliance	_ C.0	RoHS Compli	ance				



2.2 Touch Characteristics

The following items are characteristics summary on the table under 25 °C condition:

Item		Unit	Specifications
Type of Touch S	ensor		Projective Capacity Touch (on-cell touch)
	Outline Dimension	[mm]	361 (H) x 227 (V)
0	Material		CS Soda-lime
Cover Lens	Thickness	[mm]	1.1,2
Touch Sonsor	Visual Area	[mm]	345.55 (H) x 194.98 (V)
	Outline Dimension	anilla	on cell touch
Touch Sensor	Thickness	50 61	on cell touch
	Active Area		346.36 x 195.79
Touch Controller		x P 01	EETI 3200
Channel (X * Y)	F	[ch]	82 (Rx)* 46(Tx)
Interface		101	USB
Surface Hardnes	SS	[H]	7H
Multi-Touch Poir	nt	Points	10
Single/Multi-poin	ts Accuracy	[mm]	Follow Win10
Linearity		[mm]	Follow Win10
The smallest dis	tance between 2 points	[mm]	Follow Win10
Report Rate		Side	Follow Win10
OS support		Com	Win 7, Win 8, Win10

Note1. Driver is required in Win7/8/10 under mouse emulation mode

2.3 Optical Characteristics

The optical characteristics are measured under stable conditions at 25℃ (Room Temperature):

Item	Unit	Conditions	Min.	Тур.	Max.	Note
White Luminance	[cd/m2]	ILED=20mA(center point)	240	300	-	1
Uniformity	%	5 Points	75	80	150	2, 3
Contrast Ratio			-	800	-	4
		Rising	100	er		
Response Time	[msec]	Falling	N W			5
	_ 1	Raising + Falling	4.2	25	35	
Viewing Angle	[degree]	Horizontal (Right)	80	85	-	6
3 3.5	[degree]	CR = 10 (Left)	80	85	-	0



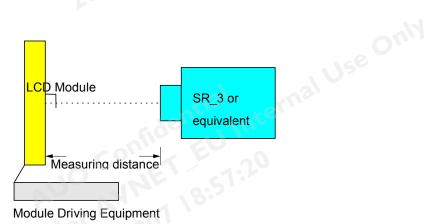
	[degree]	Vertical (Upper)	80	85	-	
	[degree]	CR = 10 (Lower)	80	85	-	
	`	Red x	TBD	TBD	TBD	
		Red y	TBD	TBD	TBD	
		Green x	TBD	TBD	TBD	YIn
Color / Chromaticity		Green y	TBD	TBD	TBD) `
Coordinates (CIE 1931)		Blue x	TBD	TBD	TBD	
		Blue y	TBD	TBD	TBD	
		White x	TBD	TBD	TBD	
		White y	TBD	TBD	TBD	
Color Gamut	%	OLLE	51:1	45	-	

Note 1: Measurement method

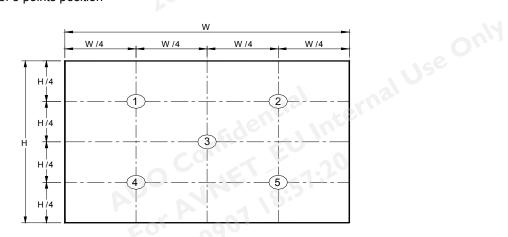
Equipment Pattern Generator, Power Supply, Digital Voltmeter, Luminance meter (SR_3 or equivalent)

Aperture 1° with 50cm viewing distance

Test Point Center
Environment < 1 lux



Note 2: Definition of 5 points position





Note 3: The luminance uniformity of 5 points is defined by dividing the minimum luminance values by the maximum test point luminance

$$\delta_{\text{W5}} = \frac{\text{Minimum Brightness of five points}}{\text{Maximum Brightness of five points}}$$

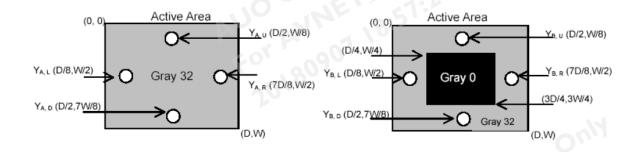
Note 4: Definition of cross talk (CT)

$$CT = | Y_B - Y_A | / Y_A \times 100 (\%)$$

Where

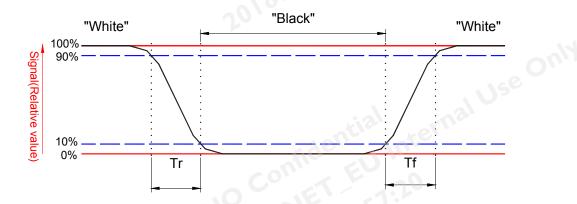
Y_A = Luminance of measured location without gray level 0 pattern (cd/m2)

Y_B = Luminance of measured location with gray level 0 pattern (cd/m2)



Note 5: Definition of response time:

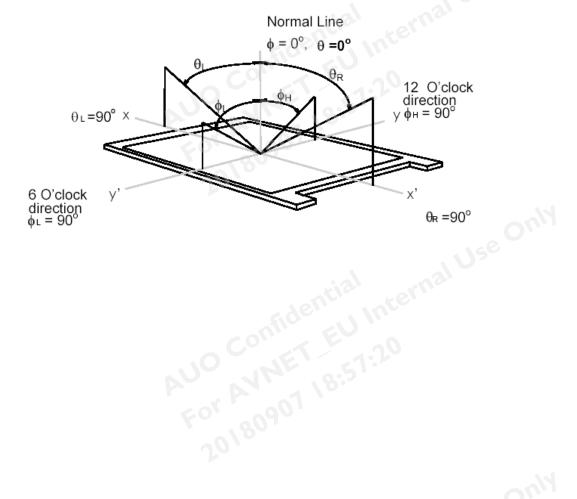
The output signals of photo detector are measured when the input signals are changed from "White" to "Black" (falling time) and from "Black" to "White" (rising time), respectively. The response time interval is between 10% and 90% of amplitudes. Please refer to the figure as below.





Note6: Definition of viewing angle

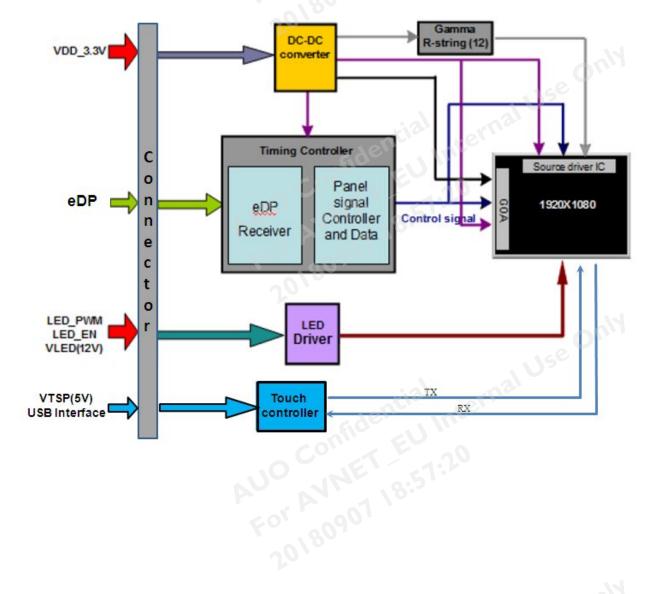
Viewing angle is the measurement of contrast ratio \geq 10, at the screen center, over a 180° horizontal and 180° vertical range (off-normal viewing angles). The 180° viewing angle range is broken down as below: 90° (θ) horizontal left and right, and 90° (Φ) vertical high (up) and low (down). The measurement direction is typically perpendicular to the display surface with the screen rotated to its center to develop the desired measurement viewing angle.





3. Functional Block Diagram

The following diagram shows the functional block of the 15.6 inch color TFT/LCD module:



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4. Absolute Maximum Ratings

4.1 Absolute Ratings of TFT LCD Module

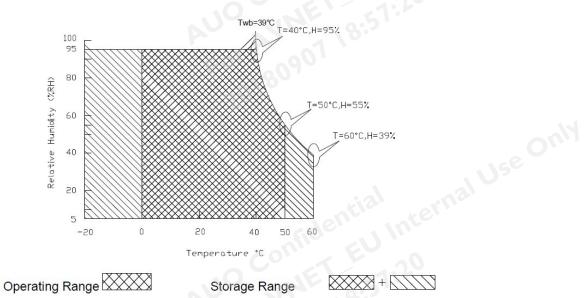
Item	Symbol	Min	Max	Unit
Logic/LCD Drive Voltage	Vin	-0.3	+4.0	[Volt]

Logic/LCD Drive Voltage	Vin	-0.3	+4.0	[Volt]	
4.2 Absolute Ratin	gs of Toucl	h Sensor Mo	odule	. 1)9	
Item	Symbol	Min	Max	Unit	
Touch Sensor Module Power Voltage	VTSP	-0.3	4.0	[Volt]	
Touch Sensor Module Reset Signal	RST	-0.3	3.6	[Volt]	
Touch Sensor Module enable Signal	TP_EN	-0.3	3.6	[Volt]	

4.3 Absolute Ratings of Environment

Item	Symbol	Min	Max	Unit
Operating Temperature	TOP	0	+50	[°C]
Operation Humidity	HOP	5	95	[%RH]
Storage Temperature	TST	-20	+60	[°C]
Storage Humidity	HST	5	95	[%RH]

Note: Maximum Wet-Bulb should be 39°C and no condensation.





5. Electrical Characteristics

5.1 TFT LCD Module

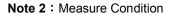
5.1.1 Power Specification

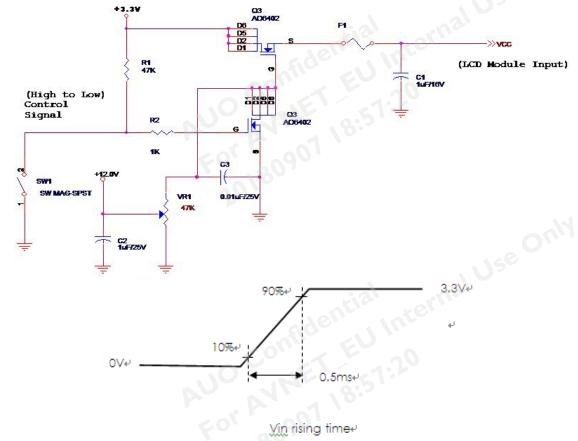
Input power specifications are as follows;

Symble	Parameter	Min	Тур	Max	Units	Note
VDD	Logic/LCD Drive Voltage	3.0	3.3	3.6	[Volt]	
PDD	VDD Power	-60	EU.	TBD	[Watt]	Note 1
IDD	IDD Current		,	TBD	[A]	Note 1
IRush	Inrush Current	1/2	18:2	2000	[mA]	Note 2
VDDrp	Allowable Logic/LCD Drive Ripple Voltage	2090	-	100	[mV] p-p	

Note 1: Maximum Measurement Condition: Black Pattern at 3.3V driving voltage. (P_{max}=V_{3.3} x I_{black})

Typical Measurement Condition: Mosaic Pattern



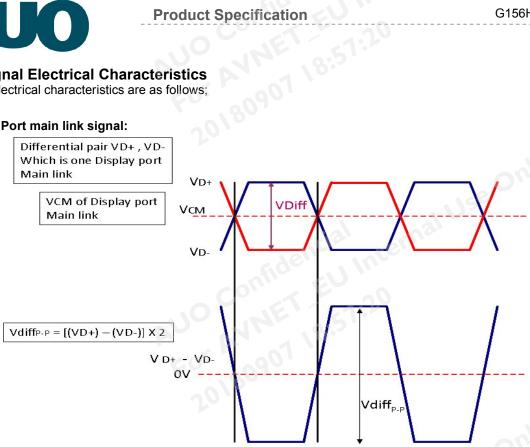




5.1.2 Signal Electrical Characteristics

Signal electrical characteristics are as follows;

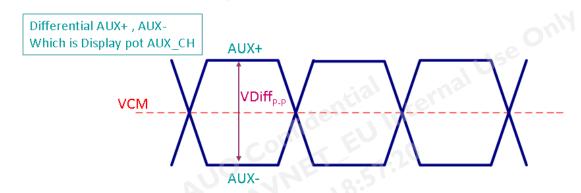
Display Port main link signal:



	Display port main link								
	6	Min	Тур	Max	unit				
VCM	RX input DC Common Mode Voltage	E	0		V				
VDiff _{P-P}	Peak-to-peak Voltage at a receiving Device	150	, 1	1320	mV				

Follow as VESA display port standard V1.3

Display Port AUX_CH signal:



Display port AUX_CH G156HAB01.0 rev. 0.3



	P	Min	Тур	Max	unit
VCM	AUX DC Common Mode Voltage		0		V
VDiff _{P-P}	AUX Peak-to-peak Voltage at a receiving Device	0.4	0.6	8.0	V

Display Port VHPD signal:

Follow as	VESA display port standard	l V1.3				
Display P	ort VHPD signal:					
		Display port VHPD		1000		
			Min	Тур	Max	unit
VHPD	HPD Voltage	Con	2.25	-	3.6	V
Follow as	VESA display port standard	I V1.1a				

G156HAB01.0 rev. 0.3



5.2 Backlight Unit

5.2.1 Parameter guideline for LED

Following characteristics are measured under stable condition using a LED driving board at 25℃ (Room

Temperature).

LED characteristics

Temperature)						
LED chara	cteristics		72e O///			
Symbol	Parameter	Min	Тур	Max	Units	Condition
PLED	Backlight Power Consumption		TBD	Inte	[Watt]	
LTLED	LED Life-Time	30000	-) <u>-</u> C	Hour	

Note 1: Calculator value for reference P_{LED} = VF (Normal Distribution) * IF (Normal Distribution) / Efficiency

Note 2: The LED life-time define as the estimated time to 50% degradation of initial luminous.

Backlight input signal characteristics

Parameter	Symbol	Min	Тур	Max	Units	Remark
LED Power Supply	VLED	6.0	12.0	21.0	[Volt]	
LED Enable Input High Level	VLED_EN	2.5	-	5.5	[Volt]	0.
LED Enable Input Low Level	*Note 1	-	-	0.5	[Volt]	Define as
PWM Logic Input High Level	VPWM_EN	2.5	4.10	5.5	[Volt]	Connector
PWM Logic Input Low Level	*Note 1	6-96	-	0.5	[Volt]	Interface
PWM Input Frequency	FPWM	200	1K	10K	Hz	(Ta=25°ℂ)
PWM Duty Ratio	Duty	5		100	%	

Note1: Recommend system pull up/down resistor no bigger than 10kohm

5.3 Touch Sensor Module

5.3.1 Power Specification

Items	Symb	Symbol			Specifications				
items	Syllib	Min.	Тур.	Max.	Unit	Notes			
Touch sensor module Power Supply	VTSF	0	4.5	5	5.5	SV			
		Active	-	-	TBD	mW			
Touch sensor module Power Consumption	PTP	Idle	Ach	100	TBD	mW			
·		Sleep) '- ·	TBD	mW			
Touch Sensor Module Power ripple	VTSP	VTSPrp		51:20	100	mV			
Input Voltage	RST, TP EN	VIH	2.64		3.3	٧			
Input Voltage	ROI, IP_EN	VIL	0		0.66	V			



6. Signal Characteristic

6.1 Pixel Format Image

Following figure shows the relationship between input signal and LCD pixel format.

		1								19	20	
1st Line	R	G	В	R	G	В		R	G B	R	G B	
							sidentia In	CE				
							10 COMET ECT.		•			
							AU AVI 18:3					
							201803		· ·			
		'			1		1		'		1	
1080th Line	R	G	В	R	G	В		R	G B	R	G B	
									7	7		

6.2 Scanning Direction

The following figures show the image seen from the front view. The arrow indicates the direction of scan.





6.3 Signal Description

The module uses a LVDS receiver embedded in AUO's ASIC. eDP is a differential signal technology for LCD interface and a high-speed data transfer device.

6.3.1 Connector Description

Physical interface is described as for the connector on module.

These connectors are capable of accommodating the following signals and will be following components.

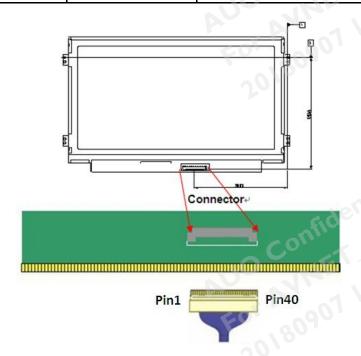
Connector Name / Designation	For Signal Connector
Manufacturer	IPEX or compatible
Type / Part Number	IPEX 20765-040E-11A or compatible
Mating Housing/Part Number	IPEX 20453-040T-11 or Compatible

6.3.2 Pin Assignment (with Touch Sensor Pin Assignment)

PIN NO	Symbol	Function
1	NC	Reserved for I2C _ RST
2	NC	Reserved for I2C _INT
3	NC	Reserved for I2C _Data
4	NC	Reserved for I2C_CLK
5	NC	Reserved for TP_EN (Active High)
6	VTSP	Touch panel power supply
7	VTSP	Touch panel power supply
8	GND	Ground-Shield
9	TP_D+	USB Data+ for Touch
10	TP_D-	USB Data- for Touch
11	NC	No Connect (Reserved for CM)
12	BL_PWR	Backlight power
13	BL_PWR	Backlight power
14	BL_PWR	Backlight power
15	BL_PWR	Backlight power
16	NC	No connect (Reverse for AUO TEST only)
17	NC	No connect (Reverse for AUO TEST only)
18	BL PWM DIM	System PWM signal Input
19	BL_Enable	Backlight On / Off
20	BL_GND	Backlight_ground



21	BL_GND	Backlight_ground
22	BL_GND	Backlight_ground
23	BL_GND	Backlight_ground
24	HPD	HPD signal pin
25	LCD GND	LCD logic and driver ground
26	LCD GND	LCD logic and driver ground
27	LCD_Self_Test	LCD Panel Self Test Enable
28	LCD_VCC	LCD logic and driver power
29	LCD_VCC	LCD logic and driver power
30	H_GND	High Speed Ground
31	AUX_CH_N	Comp Signal Auxiliary Ch.
32	AUX_CH_P	True Signal Auxiliary Ch.
33	H_GND	High Speed Ground
34	Lane0_P	True Signal Link Lane 0
35	Lane0_N	Comp Signal Link Lane 0
36	H_GND	High Speed Ground
37	Lane1_P	True Signal Link Lane 1
38	Lane1_N	Comp Signal Link Lane 1
39	H_GND	High Speed Ground
40	NC	No Connect

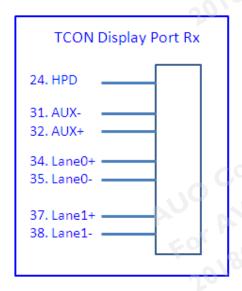




Note1: Start from right side.

Note2: Input signals shall be low or High-impedance state when VDD is off.

Note3: Internal circuit of eDP inputs are as following.



6.4 Interface Timing

6.4.1 Timing Characteristics

Use Only Basically, interface timings should match the 1920x1080 /60Hz manufacturing guide line timing.

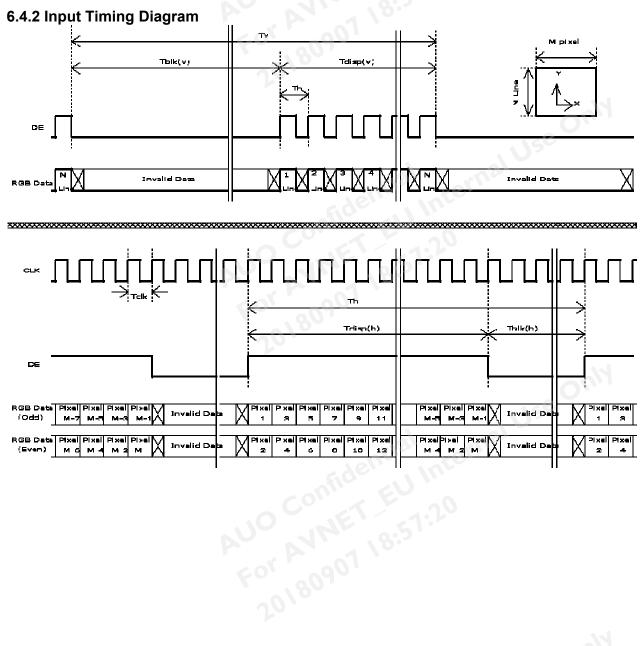
Parar	neter	Symbol	Min.	Тур.	Max.	Unit
Frame	Rate	-	-00	60	- 0	Hz
Clock fro	equency	1/ T _{Clock}	0	141	0.57.	MHz
	Period		1124	1128	1080+A	
Vertical Section	Active	T _{VD}	0,	1080		T_{Line}
	Blanking	T _{VB}	44	48	Α	
	Period	T _H	2076	2082	1920+B	
Horizontal Section	Active	T _{HD}		1920		T_{Clock}
	Blanking	T _{HB}	156	162	В	

Note1: DE mode only

Note2: The maximum clock frequency = (1920+B)*(1080+A)*60 < 150MHz

Note3: Typical value refer to VESA STANDARD



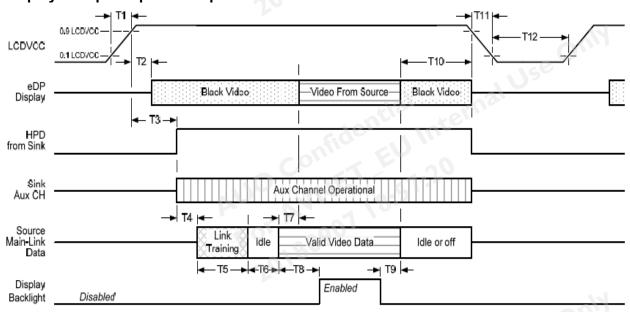


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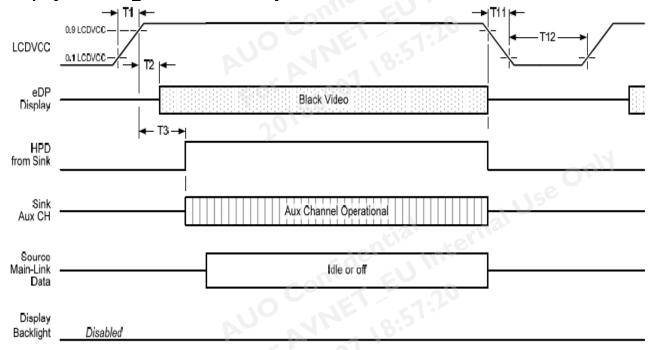
6.5 Power ON/OFF Sequence

Display Port panel power sequence:



Display port interface power up/down sequence, normal system operation

Display Port AUX_CH transaction only:



Display port interface power up/down sequence, AUX_CH transaction only

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Display Port panel power sequence timing parameter:

Timing	Description	QV	001	Limits		
parameter	Description	Reqd. by	Min.	Тур.	Max.	- Notes
T1	power rail rise time, 10% to 90%	source	0.5ms		10ms	
Т2	delay from LCDVDD to black video generation	sink	0ms		200ms	prevents display noise until valid video data is received from the source
Т3	delay from LCDVDD to HPD high	sink	0ms		200ms	sink AUX_CH must be operational upon HPD high.
Т4	delay from HPD high to link training initialization	source	. 16	ntia	1.00	allows for source to read link capability and initialize.
Т5	link training duration	source	VIIIO	EL	,,,	dependant on source link to read training protocol.
Т6	link idle	source	NE	18:5	1:1	Min accounts for required BS-Idle pattern. Max allows for source frame synchronization.
T7	delay from valid video data from source to video on display	sink	0ms		50ms	max allows sink validate video data and timing.
Т8	delay from valid video data from source to backlight enable	source				source must assure display video is stable.
Т9	delay from backlight disable to end of valid video data	source				source must assure backlight is no longer illuminated.
T10	delay from end of valid video data from source to power off	source	0ms		500ms	nalus
T11	power rail fall time, 905 to 10%	source		W.C.	10ms	
T12	power off time	source	500ms		1111	

Note1: The sink must include the ability to generate black video autonomously. The sink must automatically enable black video under the following conditions:

-upon LCDVDD power on (with in T2 max)-when the "Novideostream_Flag" (VB-ID Bit 3) is received from the source (at the end of T9).

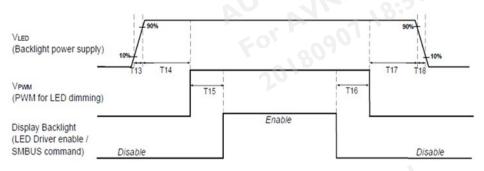
-when no main link data, or invalid video data, is received from the source. Black video must be displayed within 64ms (typ) from the start of either condition. Video data can be deemed invalid based on MSA and timing information, for example.

Note 2: The sink may implement the ability to disable the black video function, as described in Note 1, above, for system development and debugging purpose.

Note 3: The sink must support AUX_CH polling by the source immediately following LCDVDD power on without causing damage to the sink device (the source can re-try if the sink is not ready). The sink must be able to respond to an AUX_CH transaction with the time specified within T3 max.

Display Port panel B/L power sequence timing parameter:





Note: When the adapter is hot plugged, the backlight power supply sequence is shown as below.

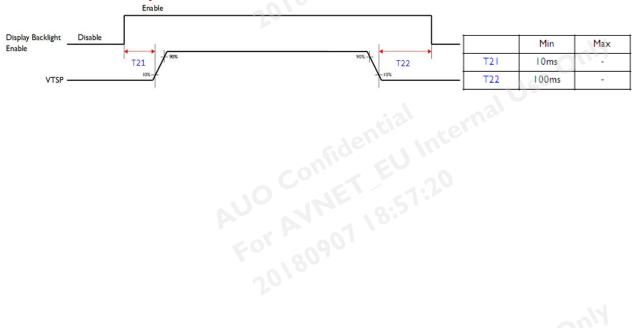
VLED (Backlight power supply) (Hot Plug)	90% VLED Low 10%
	T19 T20

	Min (ms)	Max (ms)
T13	0.5	10
T14	10	
T15	10	-
T16	10	_
T17	10	-
T18	0.5	10
T19	1*	-
T20	1*	-

Seamless change: T19/T20 = 5xT_{PWM}*

*T_{PWM}= 1/PWM Frequency

Touch Power on Sequence:



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7. Reliability Test Criteria

7.1 Vibration Test

Test Spec:

Non-Operation Test method:

Acceleration: 1.5 G

Frequency: 10 - 200Hz Random

Sweep: 30 Minutes each Axis (X, Y, Z)

7.2 Shock Test

Test Spec:

Non-Operation Test method:

220 G, Half sine wave Acceleration:

Active time: 2ms

X,Y,Z .one time for each side Pulse:

7.3 Reliability Test

Items	Required Condition	Note
Temperature Humidity Bias	Ta= 40°C, 90%RH, 300h	
High Temperature Operation	Ta= 50°C, Dry, 300h	
Low Temperature Operation	Ta= 0°C, 300h	
High Temperature Storage	Ta= 60℃, 35%RH, 300h	
Low Temperature Storage	Ta= -20℃, 50%RH, 250h	
Thermal Shock Test	-20°C/30 min ,60°C/30 min ,100cycles	
ESD	Contact : ± 8KV/ operation, Class B Air : ± 15KV / operation, Class B	Note 1

Note1: According to EN61000-4-2, ESD class B: Some performance degradation allowed. No data lost lee Oul

. Self-recoverable. No hardware failures.

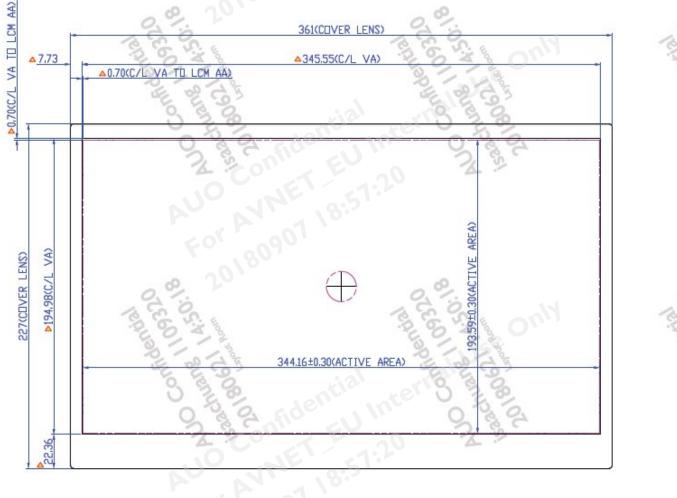
Note 2:

- Water condensation is not allowed for each test items.
- Each test is done by new TFT-LCD module. Don't use the same TFT-LCD module repeatedly for reliability test.
- The reliability test is performed only to examine the TFT-LCD module capability.
- To inspect TFT-LCD module after reliability test, please store it at room temperature and room humidity for 24 hours at least in advance.
- No function failure occurs.

8. Mechanical Characteristics

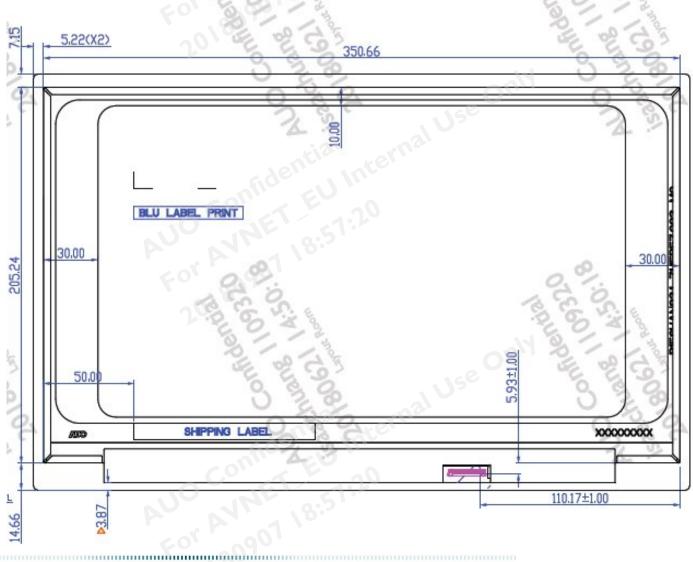
8.1 LCM Outline Dimension (Front View and back view)

Product Specification



G156HAB01.0 rev. 0.3







9. Label and Packaging

9.1 Shipping Label (on the rear side of TFT-LCD display)



9.2 Carton Package

TBD



10. Safety

10.1 Sharp Edge Requirements

There will be no sharp edges or comers on the display assembly that could cause injury. Use Only

10.2 Materials

10.2.1 Toxicity

There will be no carcinogenic materials used anywhere in the display module. If toxic materials are used, they will be reviewed and approved by the responsible AUO toxicologist.

10.2.2 Flammability

All components including electrical components that do not meet the flammability grade UL94-V1 in the module will complete the flammability rating exception approval process.

The printed circuit board will be made from material rated 94-V1 or better. The actual UL flammability rating will be printed on the printed circuit board.

10.3 Capacitors

If any polarized capacitors are used in the display assembly, provisions will be made to keep them from being inserted backwards.

10.4 National Test Lab Requirement

The display module will satisfy all requirements for compliance to:

UL 60950-1, Second Edition

U.S.A. Information Technology Equipment

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For AVNET 19.E1.20