

G185HAN01.4

AUO Display+

Product Specification

Preliminary Specification

□ Final Specification

Module	18.5 Inch Color TFT-LCD	
Model Name	G185HAN01.4(00)	

Customer	Approved by Date
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Record of Revision

sion & Date	Page	Old description	New Description
2023/06/27	All	First Edition for Customer	

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1. Handling Precautions

- 1) Since front polarizer is easily damaged, pay attention not to scratch it.
- 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 other soft cloth.
- 5) Since the panel is made of glass, it may break or crack 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 or modify the Module Assembly.
- 8) Do not press the reflector sheet at the back of the module to any directions.
- 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 LED lightbar edge. Instead, press at the far ends of the LED light bar 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) After installation of the TFT Module into an enclosure, do not twist nor bend the TFT Module even momentarily. While designing the enclosure, it should be taken into consideration that no bending/twisting forces are applied to the TFT Module from outside. Otherwise the TFT Module may be damaged.
- 12) Small amount of materials having no flammability grade is used in the LCD module. The LCD module should be supplied by power complied with requirements of Limited Power Source (IEC60950-1 or UL60950-1), or be applied exemption.

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2. General Description

This specification applies to the 18.5 inch-wide Color AHVA (IPS-like) TFT-LCD Module G185HAN01.4.The display supports the FHD [1920(H) x 1080(V)] screen format and 16.7M colors (True 8 bit). All input signals are eDP interface compatible.

2.1 Display Characteristics

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

ITEMS	Unit	SPECIFICATIONS
Screen Diagonal	[mm]	469.16(18.47")
Active Area	[mm]	408.96 (H) x 230.04 (V)
Pixels H x V		1920x1080
Pixel Pitch	[um]	213 (per one triad) × 213
Pixel Arrangement		R.G.B. Vertical Stripe
Display Mode		AHVA mode, Normally black
White Luminance (Center)	[cd/m ²]	1800 cd/m ² (Typ.)
Contrast Ratio		1000 (Тур.)
Optical Response Time	[msec]	20ms
Nominal Input Voltage VDD	[Volt]	5V (Typ)
Power Consumption (VDD line + LED line)	[Watt]	52.5W(Max)
Weight	[Grams]	1600(Typ)±10%
Physical Size	[mm]	434.9 x 259.6 x 15.17
Electrical Interface		EDP
Support Color		16.7M colors, True 8 bit
Surface Treatment		Anti-Glare, 3H
RoHS Compliance		RoHS Compliance
Temperature Range		
Operating	[°C]	-30~ 70
Storage (Shipping)	[°C]	-30~ 70

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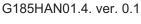
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2.2 Optical Characteristics

The optical characteristics are measured under stable conditions at 25 °C:

ltem	Unit	Conditions	Min.	Тур.	Max.	Note	
Viewing Angle	[degree]	Horizontal (Right) CR >10 (Left)		89 89	- -		
	[degree]	Vertical (Up) CR > 10 (Down)		89 89	-	2	
Contrast ratio		Normal Direction	800	1000	-	3	
		Raising Time (TrR)		10	20		
Response Time	[msec]	Falling Time (T _{rF})		10	20	4	
		Raising + Falling		20	40		
		Red x	0.596	0.646	0.696		
Response Time Color / Chromaticity Coordinates (CIE)		Red y	0.283	0.333	0.383		
		Green x	0.255	0.305	0.355		
		Green y	0.565	0.615	0.665	-	
		Blue x	0.105	0.155	0.205	5	
		Blue y	0.010	0.060	0.110		
		White x	0.249	0.299	0.349		
Color Coordinates (CIE) white		White y	0.265	0.315	0.365		
Central Luminance	[cd/m ²]		1600	1800		6	
Luminance Uniformity	[%]		80	85		7	
Color Gamut	%						



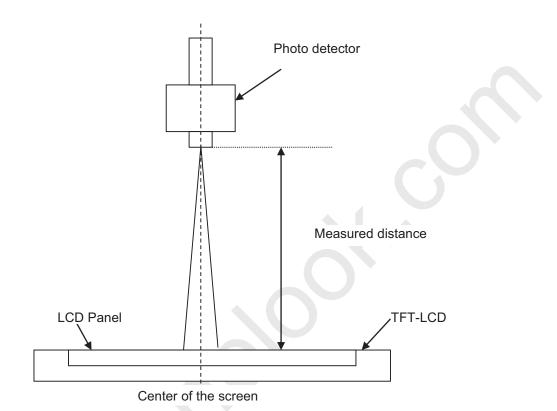
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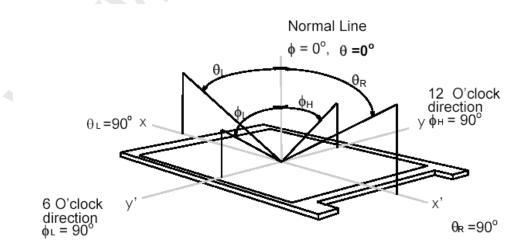
Note 1: Measurement method

The LCD module should be stabilized at given temperature for 30 minutes to avoid abrupt temperature change during measuring (at surface 35°C). In order to stabilize the luminance, the measurement should be executed after lighting Backlight for 30 minutes in a stable, windless and dark room.



Note 2: Definition of viewing angle measured by ELDIM (EZContrast 88)

Viewing angle is the measurement of contrast ratio ≥ 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 follows; 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 about its center to develop the desired measurement viewing angle.



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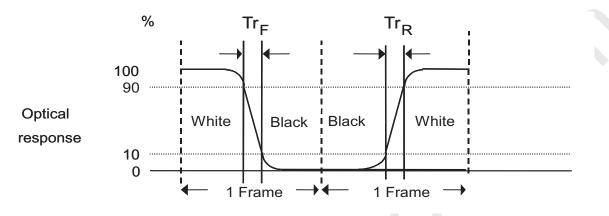
Note 3: Contrast ratio is measured by TOPCON SR-3

Note 4: Definition of Response time measured by Westar TRD-100A

The output signals of photo detector are measured when the input signals are changed from "Full Black" to "Full White"

(rising time, Tr_R), and from "Full White" to "Full Black" (falling time, Tf_F), respectively. The response time is interval between the 10% and 90% (1 frame at 60 Hz) of amplitudes.

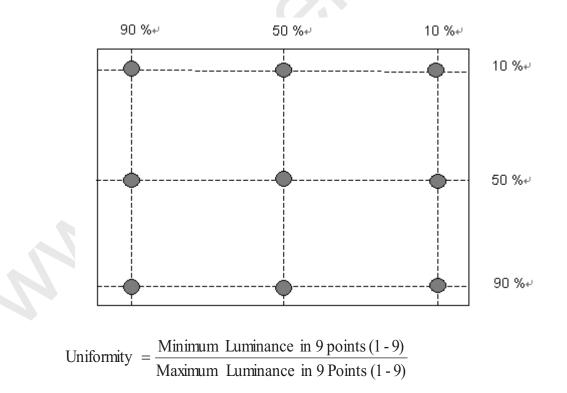
 $Tr_R + Tf_F = 20$ msec (typ.).



Note 5: Color chromaticity and coordinates (CIE) is measured by TOPCON SR-3

Note 6: Central luminance is measured by TOPCON SR-3

Note 7: Luminance uniformity of these 9 points is defined as below and measured by TOPCON SR-3



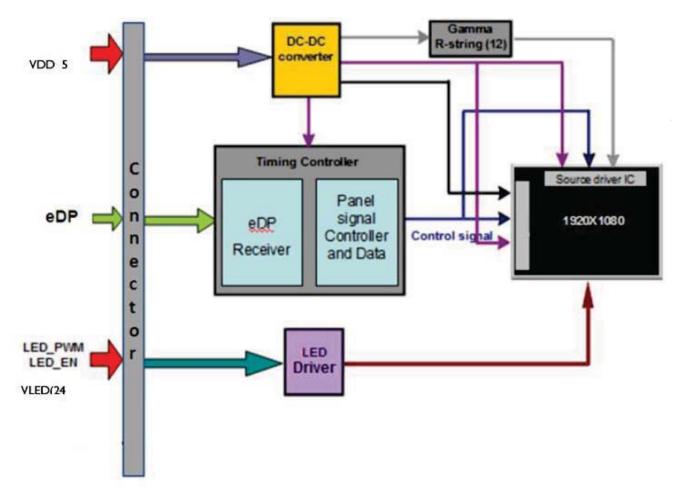


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3. Functional Block Diagram

The following diagram shows the functional block of the 18.5 inch Color TFT-LCD Module:



I/F PCB Interface: I-PEX 20765-030E-11A Mating Type: 20453-030T-01

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4. Absolute Maximum Ratings

Absolute maximum ratings of the module are as following:

4.1 TFT LCD Module

Item	Symbol	Min	Max	Unit	Conditions
Logic/LCD Drive Voltage	VDD	-0.5	+5.5	[Volt]	Note 1,2

4.2 Absolute Ratings of Environment

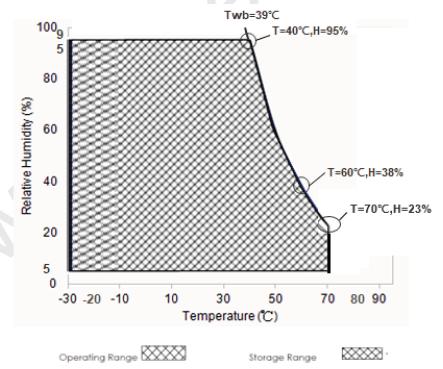
Item	Symbol	Min.	Max.	Unit	Conditions	
Operating Temperature	TOP	-30	70	[°C]		
Operation Humidity	HOP	5	95	[%RH]		
Storage Temperature	TST	-30	70	[°C]	Note 3 & 4	
Storage Humidity	HST	5	95	[%RH]		

Note 1: With in Ta (25 °C)

Note 2: Permanent damage to the device may occur if exceeding maximum values

Note 3: For quality performance, please refer to AUO IIS(Incoming Inspection Standard).

Note 4: Operation Temperature +70°C is defined as panel surface temperature.



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5. Electrical characteristics

5.1 TFT LCD Module

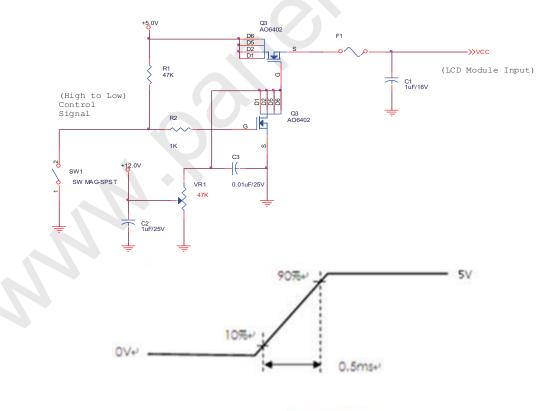
5.1.1 Power Specification

Input power specifications are as follows:

Symbol	Parameter	Min	Тур	Max	Unit	Conditions
VDD	Logic/LCD Drive Voltage	4.5	5	5.5	[Volt]	+/-10%
IDD	Input Current	-	0.6	0.9	[A]	VDD= 5V, All White Pattern At 60Hz,
PDD	VDD Power	-	3	4.5	[Watt]	VDD= 5V, All White Pattern At 60Hz
IRush	Inrush Current	-	-	3	[A]	Note 1
VDDrp	Allowable Logic/LCD Drive Ripple Voltage	-	-	150	[mV] p-p	VDD= 5V, All White Pattern At 60Hz

Note 1: Maximum Measurement Condition : VDD=5V , ALL White Pattern

Note 2: Measure condition



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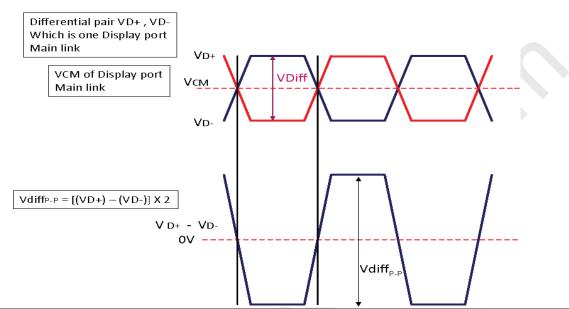
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5.1.2 Signal Electrical Characteristics

Signal electrical characteristics are as follows.

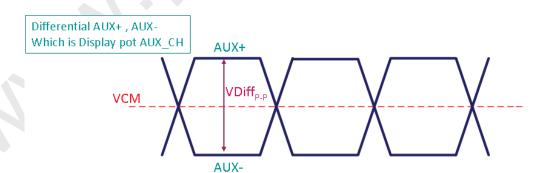
Display Port main link signal:



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

Follow as VESA display port standard V1.2

Display Port AUX_CH signal:



Display port AUX_CH						
		Min	Тур	Мах	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	0.8	V	

Fallow as VESA display port standard V1.2

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Display Port VHPD signal:

	Display port VHPD				
		Min	Тур	Max	unit
VHPD	HPD Voltage	2.7	-	3.6	V

Follow as VESA display port standard V1.2

5.2 Backlight Unit

Following characteristics are measured under a stable condition at 25 °C (Room Temperature):

Symbol	Parameter	Min.	Тур.	Max.	Unit	Remark
vcc	Input Voltage	21.8	24	26.4	[Volt]	
Ivcc	Input Current		1.8	2	[A]	100% PWM Duty
Pvcc	Power Consumption		43.2	48	[Watt]	100% PWM Duty
Irush LED	Inrush Current	-	-	3.5	[A]	
VLED	On Control Voltage	3	5	5.5	Volt	
on/off	Off Control Voltage			0.8	Volt	
	Dimming Frequency	200		15k	[Hz]	
	Swing Voltage	3	3.3	5	V	
	High Voltage	3	3.3	5	Volt	
	Low Voltage			0.8	Volt	
F _{РWM}	Dimming Duty 200~5K	5	-	100	%	
	Dimming Duty 5K~15K	15		100	%	
IF	LED Forward Current		94		mA	Ta = 25 ℃
VF	LED Forward Voltage	-	3.0	3.4	Volt	I _F =94mA, Ta = 25ºC
PLED	LED Power Consumption	-	35.53	40.27	Watt	I _F =94mA, Ta = 25ºC
Operation Lifetime		50,000			Hrs	I⊧=94mA, Ta= 25ºC

Note 1: Ta means ambient temperature of TFT-LCD module.

Note 2: VCC, Ivcc, P_{VCC}, Irush LED are defined for LED B/L.(100% duty of PWM dimming)

Note 3: IF, VF , PLED are defined for single LED.

Note 4: If G185HAN01.4 module is driven by high current or at high ambient temperature & humidity condition. The operating life will be reduced.

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Note 5: Operation life means brightness goes down to 50% initial brightness. Minimum operating life time is estimated data. Note 6: Each LED light bar consists of 63 pcs LED package (7 strings x 9 pcs / string); There are two Light bars.

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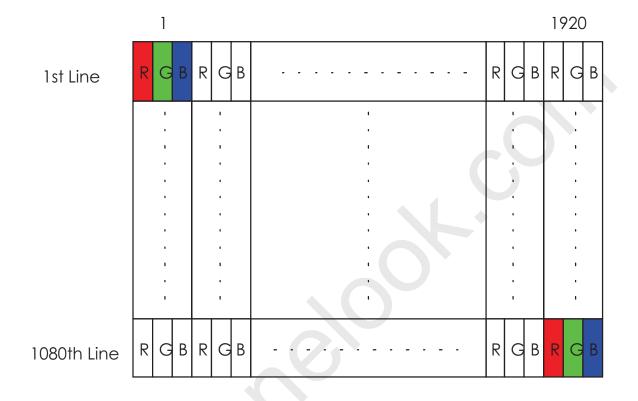
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6. Signal Characteristic

6.1 Pixel Format Image

Following figure shows the relationship of the input signals and LCD pixel format.



6.2 Scanning Direction

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



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6.3 Signal Description

The module uses a eDP 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 TFT LCD Module 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 20765-030E-11A or compatible
Mating Housing/Part Number	IPEX 20453-030T-01 or Compatible

6.3.2 TFT LCD Module Pin Assignment

PIN NO	Symbol	Function
1	NC	No Connect (Reserved for CM)
2	NC	No Connect
3	NC	No Connect
4	NC	No Connect
5	NC	No Connect
6	NC	No connect (Reverse for AUO TEST only)
7	NC	No connect (Reverse for AUO TEST only)
8	NC	No Connect
9	NC	No Connect
10	NC	No Connect
11	LCD GND	LCD logic and driver ground
12	LCD GND	LCD logic and driver ground
13	LCD GND	LCD logic and driver ground
14	HPD	HPD signal pin
15	LCD GND	LCD logic and driver ground
16	LCD GND	LCD logic and driver ground
17	LCD_Self_Test	No connect(Reverse for LCD panel shelf test Enable)
18	LCD_VCC	LCD logic and driver power

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19	LCD_VCC	LCD logic and driver power
20	H_GND	High Speed Ground
21	AUX_CH_N	Comp Signal Auxiliary Ch.
22	AUX_CH_P	True Signal Auxiliary Ch.
23	H_GND	High Speed Ground
24	Lane0_P	True Signal Link Lane 0
25	Lane0_N	Comp Signal Link Lane 0
26	H_GND	High Speed Ground
27	Lane1_P	True Signal Link Lane 1
28	Lane1_N	Comp Signal Link Lane 1
29	H_GND	High Speed Ground
30	NC	No Connect

Note1: Start from left side.

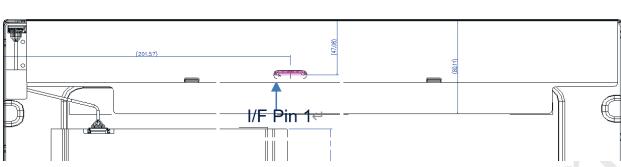
Note2: Input signals shall be low or High-impedance state when VDD is off.

Note3: Internal circuit of eDP inputs are as following.

TCON Display Port Rx						
14. HPD						
21. AUX- 22. AUX+						
24. Lane0+ 25. Lane0-						
27. Lane1+ 28. Lane1-						

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6.3.3 BLU Connector

Connector Name / Designation	Signal Connector
Manufacturer	日本壓著端子株式會社 (J.S.T ELECTRONICE Co.,Ltd.)
Connector Model Number	SM08B-GHH-TB(HF)

Pi	Symbol	Function	Remark
1	BL_PWR	Backlight power	
2	BL_PWR	Backlight power	
3	BL_PWR	Backlight power	
4	BL_GND	Backlight ground	
5	BL_GND	Backlight ground	
6	BL_GND	Backlight ground	
7	BL_EN	Backlight On / Off	
8	LED_PWM	PWM signal input	

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6.4 Interface Timing

6.4.1 Timing Characteristics

Basically, interface timings should match the 1920x1080 /60Hz manufacturing guideline timing.

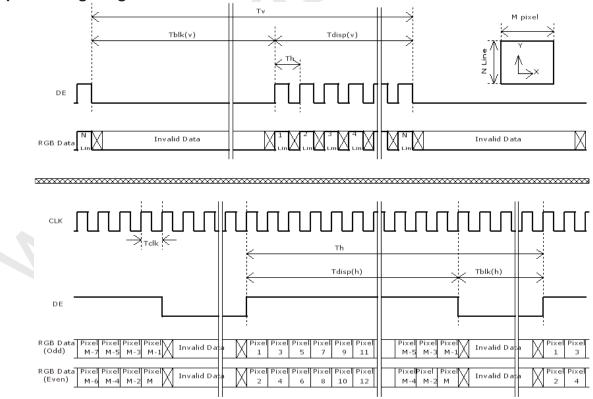
Parameter		Symbol	Min.	Тур.	Max.	Unit	
Frame	e Rate	-	-	60	-	Hz	
Clock fre	equency	1/ T _{Clock}		141		MHz	
	Period	Τv	1112	1116	1080+A		
Vertical Section	Active	T _{VD}	1080			TLine	
Coolion	Blanking	Тув	32	36	А		
	Period	Тн	2062	2104	1920+B		
Horizontal Section	Active	T _{HD}		1920		T _{Clock}	
	Blanking	Тнв	142	184	В		

Note1: DE mode only

Note2: The maximum clock frequency = (1920+B)*(1080+A)*60 < 143MHz

Note3: Typical value refer to VESA STANDARD

6.4.2 Input Timing Diagram



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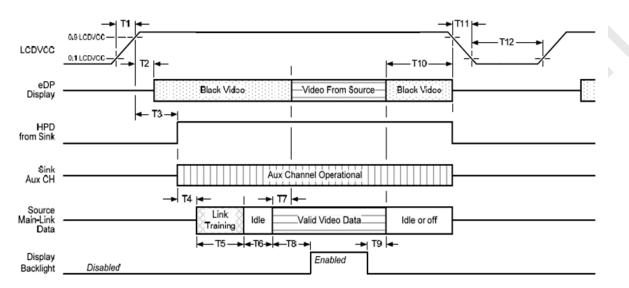
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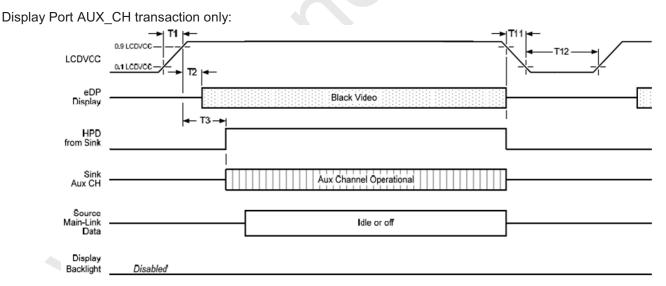
6.5 Power ON/OFF Sequence

Power on/off sequence is as follows. Interface signals and LED on/off sequence are also shown in the chart. Signals from any system shall be Hi-Z state or low level when VDD is off

Display Port panel power sequence:



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



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

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Display Port panel power sequence timing parameter:

Timing Departmention		Doud by	Limits			Notes	
parameter	Description	Reqd. by	Min.	Тур.	Max.	Notes	
T1	power rail rise time, 10% to 90%	source	0.5ms		10ms		
T2	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				allows for source to read link capability and initialize.	
Т5	link training duration	source				dependant on source link to read training protocol.	
T6	link idle	source				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		
T11	power rail fall time, 905 to 10%	source			10ms		
T12	power off time	source	500ms				

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.

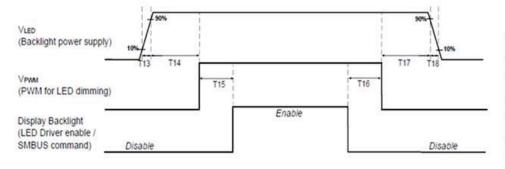
Note 3: The sink must support AUX_CH polling by the source immediately following LCDVDD power on without causing damage to the sink device (the source can re-try if the sink is not ready). The sink must be able to respond to an AUX_CH transaction with the time specified within T3 max.

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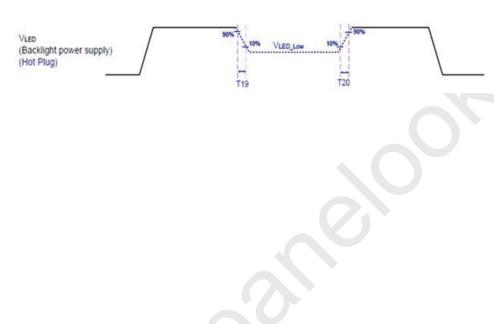
Display Port panel B/L power sequence timing parameter:



Min (ms) Max (ms) 0.5 10 T13 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

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





7. Reliability Test

Environment test conditions are listed as following table.

Items	Required Condition	Note
Temperature Humidity Bias (THB)	Ta= 50°C, 80%RH, 300hours	
High Temperature Operation (HTO)	Ta= 70°C, 300hours	3
Low Temperature Operation (LTO)	Ta= -30°C, 300hours	
High Temperature Storage (HTS)	Ta= 70°C, 300hours	
Low Temperature Storage (LTS)	Ta= -30°C, 300hours	
Vibration Test (Non-operation)	Acceleration: 1.5 G Wave: Random Frequency: 10 - 200 Hz Sweep: 30 Minutes each Axis (X, Y, Z)	
Shock Test (Non-operation)	Acceleration: 50 G Wave: Half-sine Active Time: 20 ms Direction: ±X, ±Y, ±Z (one time for each Axis)	
Thermal Shock Test (TST)	-20°C /30min, 60°C /30min, 100 cycles	1
On/Off Test	On/10sec, Off/10sec, 30,000 cycles	
ESD (Electro Static Discharge)	Contact Discharge: ± 8KV, 150pF(330 Ω) 1sec, 8 points, 25 times/ point.	
ESD (Electro Static Discharge)	Air Discharge: \pm 15KV, 150pF(330 Ω) 1sec 8 points, 25 times/ point.	2

Note 1: The TFT-LCD module will not sustain damage after being subjected to 100 cycles of rapid temperature change. A cycle of rapid temperature change consists of varying the temperature from -20°C to 60°C, and back again. Power is not applied during the test. After temperature cycling, the unit is placed in normal room ambient for at least 4 hours before power on.

Note 2: According to EN61000-4-2, ESD class B: Some performance degradation allowed. No data lost. Selfrecoverable. No hardware failures.

Note 3: No function occurs Mura shall be ignored after high temperature reliability test.

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8. Shipping Label & Packaging

8.1 Shipping Label

The label is on the panel as shown below:

	*XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	AUO Display Plus ADP NO: G185HAN01.4 Manufactured XX/XX AUO Corporation Model NO: G185HAN01.4 Made in XXXXX(XXX)	C 91 US E204356	Pb RoHS	23	mm
•		90 mm		>	1.12	

Note 1: For Pb Free products, AUO will add 🔊 for identification.

Note 2: For RoHS compatible products, AUO will add RoHS for identification.

Note 3: For China RoHS compatible products, AUO will add 10 for identification.

Note 4: The Green Mark will be presented only when the green documents have been ready by AUO Internal Green Team.

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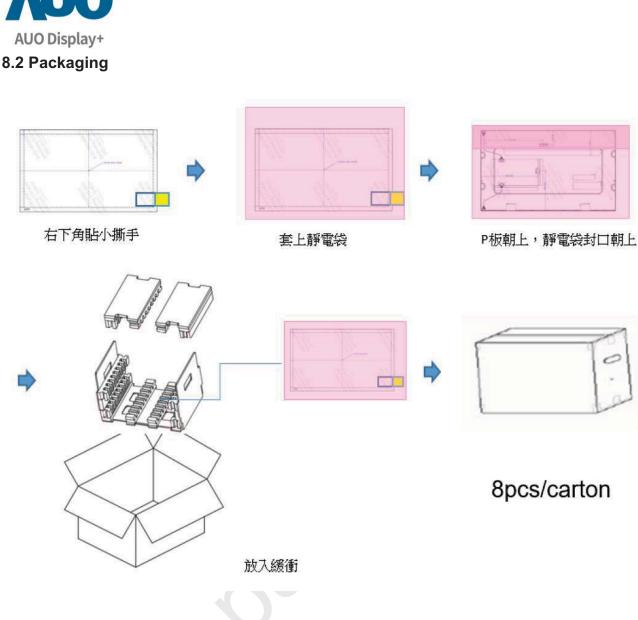
www.panelook.com

Product Specification

屏库:全球液晶屏交易中心



G185HAN01.4



Max capacity : 8 TFT-LCD module per carton

Max weight: 12.3 kg per carton

Outside dimension of carton: 520mm(L)*365mm(W)*360mm (H)

Pallet size : 1150mm * 1070 mm * 132mm

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8.3 Palletizing

Box stacked

Module by air : (2*3) *4 layers , one pallet put 24 boxes , total 192pcs module Module by sea : One pallet (2*3) *4 layers + One pallet (2*3) *1ayers , total 240pcs module Module by sea_ HQ : One pallet (2*3) *4 layers + One pallet (2*3) *2 layers , total 288pcs module

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G185HAN01.4

12 01/01/02 2000 12 01/02 01

517 ±0.50

134.90 ± 0.50 (MODULE OUTLINE 413.96 ± 0.30 (BEZEL OUTLINE) 412.56 ± 0.30 (AR FLM OUTINE) 108.96 ± 0.30 (ACTIVE ARE/

7.45 ± 0.35 (ACTIVE AREA CENTER)

(310H 8350) 02'0 7 08'64

4-M3 SCREW USER HOLD DP=4.0 MM MAX SCREW PENATRATION

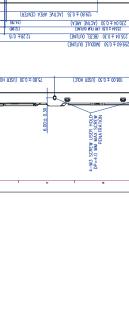
(310H 83SU) 0.50 ± 00.00

THEOREM AND XXXXXX (11)



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8:00 ± 0:30 (USER HOLE

4-M3 SCREW USER HOLD-DP=4.0 MM MAX SCREW PENATRATION

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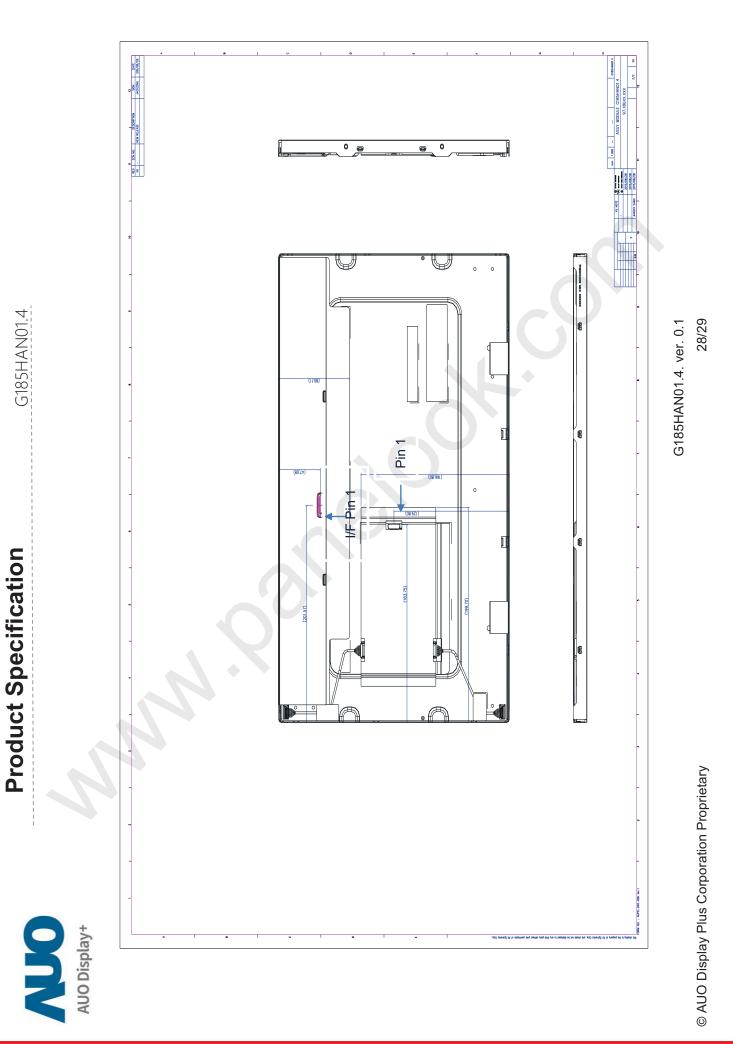


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G185HAN01.4



10. Safety

10.1 Keen Edge Requirements

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

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

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 International Safety Standard Compliance

The TFT-LCD module will satisfy all requirements for compliance to:IEC/UL 62368-1