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		B3 GV185FHM-N10-	DM31 Produ	uct Specification Rev	v.P0	
	SUPPLIE	R HEFEI BOE	Optoelectro	nics Technology CO.,	LTD	
	FG-Cod	e	GV185FHN	1-N10-DM31		
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	\subseteq	TFT LCD PRODUCT	P0	2024.01.30
		REVISION HISTORY	/	
REV.	ECN NO.	DESCRIPTION OF CHANGES	DATE	PREPARED
P0	-	Initial Release	2024.01.30	Hu bing
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	DOL	TFT LCD PRODUCT	P0	2024.01.30

1.0 GENERAL DESCRIPTION

1.0.1 Introduction

GV185FHM-N10-DM31 is a color active matrix TFT LCD module using amorphous silicon TFT's (Thin Film Transistors) as an active switching devices. This module has a 18.5 inch diagonally measured active area with FHD resolutions (1920 horizontal by 1080 vertical pixel array). Each pixel is divided into RED, GREEN, BLUE dots which are arranged in vertical stripe and this module can display 16.7 M colors.



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1.0.4 General Spe	cification < Table 1. General Specifications >					
Parameter	Specification	Unit	Remarks			
Active area	408.96 (H) × 230.04(V)	408.96 (H) × 230.04(V) mm				
Number of pixels	1920(H) × 1080(V)	Pixels				
Pixel pitch	0.213(H) × 0.213 (V)	mm				
Pixel arrangement	RGB Vertical stripe					
Display colors	rs 16.7M(8bit) Colors					
Display mode	Normally Black					
Dimensional outline	430.4 (H) × 254.6(V) × 12(D) typ.	mm				
Weight	1800	g	待实测			
Surface treatment	AG25 , 3H					
Back-light	Edge side, 1-LED Lighting Bar Type		56*LED			
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2.0 ABSOLUTE MAXIMUM RATINGS

The followings are maximum values which, if exceed, may cause faulty operation or damage to the unit. The operational and non-operational maximum voltage and current values are listed in Table 2.

< Table 2. Environment Absolute Maximum Ratings> [Ta :	a =25±2 °C]
--	-------------

Parameter	Symbol	Min.	Тур.	Max.	Unit	Remarks
Back-light Power Supply Voltage	HV _{DDOUT}	-	42	-	V	
Back-light LED Current	I _{hvdd}	-	360	-	mA	Ta = 25 °C
Back-light LED Reverse Voltage	V _R	-		-	V	Note 1&2
Power Supply Input Voltage	VCC	4.5	5	5.5	V	
Operating Temperature	T _{OP}	-20)-	70	°C	Environment
Storage Temperature	Т _{ST}	-30	-	80	°C	Temperature
Heat Release Requirement	Trls		15		°C	Note3

Note:

1. These range above is maximum value not the actual operating temperature . Actual Operating temperature is no more than 40° C and temperature refers to the LCM surface temperature ;

2.BOE is not responsible for product problems beyond the use conditions. 3.When the ambient temperature is T $^{\circ}$ C, the surface temperature of Panel can not exceed (T+15) $^{\circ}$ C.

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3.0 ELECTRICAL SPECIFICATIONS 3.0.1 TFT LCD Module < Table 3. LCD Module Electrical Specifications > [Ta =25±2 °C]								
Parame	Values							
		C y insor	Min	Тур	Max		Notes	
Power Supply In	put Voltage	V _{DD}	4.5	5	5.5	V	Note 1	
Power Supply	y Current	I _{DD}	-	TBD	-	mA		
LED Driver Pov Voltage	H _{VDD}	10.8	12	13.2	V			
LED Driver Pov Currer	I _{HVDD}	-	TBD	-	mA	Note 2		
LED Power Co	P _{LED}	-	TBD	-	W			
Positive-goir Threshold V	V _{IT+}	\bigcirc	-	+100	mV	Vcom = 1.2V		
	Negative-going Input Threshold Voltage			-	-	mV	typ.	
	Differential input common mode voltage			1.2	-	V	V _{IH} =100mV, V _{IL} =-100mV	
LED Lifet	-	30000	-	-	Hours			
Max va	oply voltage is rrent draw an lue at Black F ated value for	d power co Pattern	onsumpti	on specifi	ed is fo			
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3.2 Back	-light l	Jnit							
< Table 4. LED Driving guideline specifications > Ta=25+/-2°C									
	Param	eter		Min.	Тур.	Max.	Unit	Rer	narks
Power supply Back light	y voltaç	ge for	V_{LED}	-	42	-	V	\circ	
Power supply Back light	y Curre	ent for	I _{LED}	-	360	-	mA		
Power supply	y for B	ack light	P_{LED}	-	15.12	-	W	No	ote 1
EN Control	Back	light on	V _{ENH}	2	C		V		jic high v tage
Level	Back	klight off	V _{ENL}	-2	-	0.8	V	-	ic low vol age
PWM		M High .evel	V _{PML}	2	-	-	V		
Control Level		M Low evel	V _{PML}	-	-	0.8	V		
PWM Control Frequency F			F _{PWM}	0.1	-	50	KHz		
Duty Ratio -			5	-	100	%			
	he LEI	or Value fo D Life-time is under th	e define a	as the est	imated ti	me to 50			initial
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. 1 Elect The ele The LE				
	nnector interface p	connector is IS100-L30R-C23 (UJU) 205M2HRD-NH or equivalent. in assignments are listed in Table 6 a Pin Assignments for the Interface Co	and 7.	nt
Pin No.	Symbol	Description		emark
1	RxOIN0-	LVDS data input		
2	RxOIN0+	LVDS data input		
3	RxOIN1-	LVDS data input		
4	RxOIN1+	LVDS data input		
5	RxOIN2-	LVDS data input		
6	RxOIN2+	LVDS data input		
7	VSS	Ground		
8	RxOCLKIN-	LVDS clock input		
9	RxOCLKIN+	LVDS clock input		
10	RxOIN3-	LVDS data input		
11	RxOIN3+	LVDS data input		
12	RxEIN0-	LVDS data input		
13	RxEIN0+	LVDS data input		
14	VSS	Ground		
15	RxEIN1-	LVDS data input		
16	RxEIN1+	LVDS clock input		
17	VSS	Ground		
18	RxEIN2-	LVDS clock input		
19	RxEIN2+	LVDS clock input		
20	RxECLKIN-	LVDS clock input		
21	RxECLKIN+	LVDS clock input		
22	RxEIN3-	LVDS clock input		
23	RxEIN3+	LVDS clock input		
24	VSS	Ground		
25	SCL	I2C BUS	Onl	y BOE use
26	SDA	I2C BUS	Onl	y BOE use
27	WP	EEPROM write EN	Onl	y BOE use
28	VCC	Power supply(5V)		
	VCC	Power supply(5V)		
29	VCC	Power supply(5V)		

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The LED conne	terface Connection interface connect ector is CI4205M2I interface pin assig		Ind 7.	t								
Terminal	Symbol	Functio	one									

Terminal	Symbol	Functions
Pin No.	Symbol	Description
5	VCC	12V
4	GND	GND
3	Enable	5V-On / 0V-Off
2	Dimming	PWM Dimming
1	NC	No Connection

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5.0 SIGNA	L TIM	ING SPECIFIC		١			·	
5.0.1 The	GV18	5FHM-N10 is ope	erated b	y the DE	only.			
Item		Symbols		Min	Тур	Max	Unit	Note
		Period	tCLK	9.5	-	25	ns	Note 1
DCLK		Frequency	-	40	-	105	MHz	
		Period	tHP	990	1040	-	tCLK	
TT	Но	orizontal Valid	tHV	-	960	-	tCLK	
Hsync	Нс	orizontal Blank	tHB	30	80	-	tCLK	
		Frequency	fH	45	60	75	KHz	
		Period	tVP	1100	1125	1138	tHP	
X7	1	Vertical Valid	tVV		1080	-	tHP	
Vsync	V	ertical Blank	tVB	30	45	58	tHP	
		Frequency	fV	45	60	75	Hz	
LVDS	Input	spread spectrum ratio	SSr	-	1.5	2	%	Nata 2
Receiver clock		read spectrum lation frequency	Fssm	-	-	100	KHZ	Note 2
		ge at last line of V-bla ead Spectrum Clock G F _{elkin_mod(max} F _{elkin} F _{elkin mod(min}	enerator) is		following figu	re:		
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Power Supply	0.9VDD OV 0.1VDD T1 T2		0.9VDD 0.1VDD 0.1VDD 0.1VDD 0.1VDD 0.1VDD 0.1VDD	
Interface Signal Back- light		Valid		
Back- light	0V			
Parameter	D.C.	Values	Mari	Units
	0.5	Тур	Max 10	ms
T1 T2	0		50	ms
T3	300	_	-	ms
T4	500	_	-	ms
T5	0	-	50	ms
Т6	0	-	10	ms
T7	500	-	-	ms

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8.0 OPTICAL SPECIFICATION

8.0.1 Overview

The test of view angle range shall be measured in a dark room (ambient luminance ≤ 1 lux and temperature = $25\pm2^{\circ}$ C) with the equipment of Luminance meter system (Goniometer system and TOPCON CS2000/CA310) and test unit shall be located at an approximate distance 50cm from the LCD surface at a viewing angle of θ and Φ equal to 0°. We refer to $\theta \emptyset = 0$ (= $\theta 3$) as the 3 o'clock direction (the "right"), $\theta \emptyset = 90$ (= $\theta 12$) as the 12 o'clock direction ("upward"), $\theta \emptyset = 180$ (= $\theta 9$) as the 9 o'clock direction ("left") and $\theta \emptyset = 270$ (= $\theta 6$) as the 6 o'clock direction ("bottom"). While scanning θ and/or \emptyset , the center of the measuring spot on the Display surface shall stay fixed. The luminance, color and uniformity (etc) should be tested by CS2000/CA310. The backlight should be operating for 10 minutes prior to measurement. VDD shall be 3.3 ± 0.3V at 25°C. Optimum viewing angle direction is 6 'clock

Parameter		Symbol	Condition	Min.	Тур.	Max.	Unit	Remark
	Horizonta	Θ3		80	85	-	Deg.	
Viewing Angle	попиона	Θ ₉	CR > 10	80	85	-	Deg.	Note 1
range	Vertical	Θ ₁₂	CK = 10	80	85	-	Deg.	NOLE I
	ventical	Θ ₆		80	85	-	Deg.	
Luminance Contrast ratio		CR	Θ = 0°	900	1200	-		Note 2
Luminance of White Center		Yw		425	500	-	cd/m ²	Note 3
White Luminance uniformity		ΔΥ9	Θ = 0°	80	85	-	%	Note 4
Color Gamut	NTSC	CIE1931	Θ = 0°	65	70	-	%	
Reproduction		Wx		Тур	0.286	Тур		Note 5
of color White		Wy	Θ = 0°	-0.05	0.296	+0.05		
Response Time		Tr+Td	Ta= 25° C Θ = 0°	-	30	35	ms	Note 6
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<Table 5. Optical Specifications>

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viewing the vertion normal t 2. Contrast center o the view	angle is the angle at which the contrast ratio angles are determined for the horizontal or 3, cal or 6, 12 o'clock direction with respect to t o the LCD surface (see FIGURE 1). It measurements shall be made at viewing ang f the LCD surface. Luminance shall be measu field set first to white, then to the dark (black mance Contrast Ratio (CR) is defined mathem	9 o'clock dire he optical axis gle of Θ= 0 ar ured with all p) state . (see	ection and s which is nd at the pixels in
	Luminance when displaying a white rat	ster	
CI	R = Luminance when displaying a black ras	ster	
2 for a to CS2000 4. The Whi	This measurement shall be taken at the loca otal of the measurements per display. The lun /CA310 when the LED current is set at 60mA te luminance uniformity on LCD surface is the	ninance is me en expressed	asured by
	n Luminance of 9 Points / Maximum Luminar See FIGURE 2).	nce of 9	
from the	r chromaticity coordinates specified in Table 5 spectral data measured with all pixels first in easurements shall be made at the center of th	red, green, bl	
3 by swit	tro-optical response time measurements shal ching the "data" input signal ON and OFF. Th e to change from 10% to 90% is Tr, and 90%	e times need	ed for the
	SPEC TITLE		PAGE



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	Figure 3. Response Time Testing		
Display data	Black (TFT OFF) White (TFT ON)	Black (TFT OFF	F) \
Optical 1000 Response 900 10% 0%	%	Tr C	
FIGURE 3 b	optical response time measurements shall be y switching the "data" input signal ON and OF ance to change from 10% to 90% is Tr and 90	made as sho F. The times	own in needed
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	\Box	TFT L	CD PRODUCT	P0	2024.01.30
10.0	RELIABILIT The Reliability t	est items and its c	conditions are shown in belo ble 9. Reliability test>	ow.	
No	Т	est Items	Conditions		Remark
1	High temperat	ure storage test	Ta = 80°C, 240 hrs		
2	Low temperate	ure storage test	Ta = -30°C, 240 hrs		
3	High temperat test	ure operation	Ta = 80°C, 240 hrs	C	
4	Low temperati	ure operation	Ta = -30°C, 240 hrs	+	
5	High temperat humidity operation test	ure & high	Ta = 60 °C, 90%RH, 240	hrs	
6	Thermal shocl	<	Ta = -30 °C ↔ 80°C (0.5 1hour/Cycle,100 cycle	hr),	Non-operation
7	ESD test		C=150pF, R=330 Ω , Air: ±15KV, Contact: ±8KV,100point		
8	Vibration Test	(Non-operation)	1.5G,10~200Hz,30min/AX X,Y,Z directions; Wave:		
defe		line defect, aborm	duct only guarantee function al display etc). All the cosn		
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БÖГ	TFT LCD PRODUCT	P0	2024.01.30
 11.1 Mounting (1) Use fingers inspection and asser (2) You must m (3) Please maked during the process of (4) Note that pot the exposed polarized rub with dust c (5) Do not pull Do not pull or find (6) After removed absorbent cotton or Do not strong p (7) Wipe off san causes deformations (8) Protection for the electrostatic chan (9) Since the Le Handling with care falls from a hig (10) Do not diss (11) To determing specification for (12) If the custed display. But this pho- way of mutual 	on to the followings when you use this TFT LC Precautions talls with soft gloves in order to keep display clear nbly process. iount a module using specified mounting holes (D e sure to avoid external forces applied to the Source of handling or assembling. If not, It causes panel c olarizers are very fragile and could be easily dama ers with glass, tweezers or anything harder than H lothes with chemical treatment. or fold the source D-IC which connect the source fold the LED wire. <i>ving</i> the protective film, when the surface becomes other soft materials like chamois soaks with alcoh solar solvent because they cause chemical damage liva or water drops as soon as possible. Their long is and color fading. Ilm for polarizer on the module shall be slowly per rge can be minimized. CD is made of glass, do not apply strong mechanio since shock, vibration, and careless handling may h place or receives a strong shock, the glass may b assemble the module. Ine the optimum mounting angle, refer to the view or each model. omer's set presses the main parts of the LCD, the I enomenon does not mean the malfunction of the L agreement. p water or any chemicals onto the LCD's surface.	n during the in- etails refer to t ce PCB or FPC lamage or malf ged. Do not to B pencil lead PCB or FPC s dusty, please ol or purified v to the polarize time contact v eled off just be cal impact or s seriously affec be broken. ing angle rang LCD may show	he drawings). C and D-IC function. uch, push or rub And please do no and the panel. wipe gently with water. er. vith polarizer efore use so that tatic load onto it. et the product. If the abnormal be pressed by the
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11.2 Operating Precautions

• (1) Be careful for condensation at sudden temperature change. Condensation makes damage to polarizer or electrical contacted parts. And after fading condensation, smear or spot will occur.

• (2) Module has high frequency circuits. Sufficient suppression to the electromagnetic

interference shall be done by system manufacturers. Grounding and shielding methods may be important to minimized the interference.

• (3) The electrochemical reaction caused by DC voltage will lead to LCD degradation, so DC drive should be avoided.

• (4) The LCD modules use C-MOS LSI drivers, so customers are recommended that any unused input terminal would be connected to Vdd or Vss, do not input any signals before power is turn on, and

ground you body, work/assembly area, assembly equipments to protect against static electricity.

• (5) Do not exceed the absolute maximum rating value. (supply voltage variation, input voltage variation, variation in part contents and environmental temperature, and so on) Otherwise the Module may be damaged.

• (6) Design the length of cable to connect between the connector for back-light and the converter as short as possible and the shorter cable shall be connected directly.

- The longer cable between that of back-light and that of converter may cause the luminance of LED to lower and need a higher startup voltage(Vs).
- (7) Connectors are precise devices for connecting PCB and transmitting electrical signals. Operators should insert and unplug MDL in parallel when assembling MDL.
- (8) Do not connect or disconnect the cable to/ from the module at the "Power On" condition.
- (9) When the module is operating, do not lose CLK, ENAB signals. If any one these signals is lost, the LCD panel would be damaged.
- (10) Obey the supply voltage sequence. If wrong sequence is applied, the module would be damaged.
- (11) Do not re-adjust variable resistor or switch etc.
- (12) Long Side LED Bar design is recommended when using E-LED type Back Light.

11.3 Electrostatic Discharge Control

• (1) Since a module is composed of electronic circuits, it is not strong to electrostatic discharge. Make certain that treatment persons are connected to ground through wrist band etc. And don't touch interface pin directly. Keep products as far away from static electricity as possible.

- (2) Avoid the use work clothing made of synthetic fibers. We recommend cotton clothing or other conductivity-treated fibers.
- (3) In order to prevent potential problems, Flicker should be adjusted by Optimizing the Vcom value in customer LCM line through the I2C interface.

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It is not allowed to stor time; Strong light experime; 11.5 Storage Preca When storing modules •(1) The polarizer surf It is recommended Temperature : 5 ~ 4 •(2) Humidity : 35 ~ 7 •(3) Period : 6 months •(4) Control of ventila •(5) Please make sure Be careful for cond •(6) Store in a polyethy	as spares for a long time, the following precautio ace should not come in contact with any other obj that they be stored in the container in which they that they be stored in the container in which they that they be stored in the container in which they the stored in the stored in the stored in the stored in the stored to protect the product from strong light exposure,	ter. ns are necessa ect. were shipped. water or moist	ry.
	lodules/OC/FOG at a circumstance shown below l	Fig.	
 (1) Remove the prote 30-degree not vertical the humidity of workin (2) In handling the L the conducting shoes t 	a month 3 month 6 month br Protection Film 6 month bective film slowly, keeping the removing direction from panel surface, If possible, under ESD control and room should be kept over 50%RH to reduce the CD, wear non-charged material gloves. And the control of the earth are necessary. Condition for Display	I device like id risk of static	charge.
 (1) Normal operating Temperature: 0 ~ 4 Operating Ambient Display pattern: dy Suitable operating or more than suggester Long-term lighting (2) Special operating If the product will be to 7*24 hrs operation time advice. Otherwise, its 	condition 0°C Humidity : 10 ~ 90 % namic pattern (Real display) time: under XX hours a day. (Please contract BC d Operating time) products recommended regular shutdown	re, humidity, d E for Application	lisplay patterns or
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 (5) Please contract and scape screen. (6) Please contact F (7) Please contact F (8) If the Module k 'sticked" to the screen. (9) Do not exceed t variation, variation in p may be damaged. (10) Dew drop atmediate of the screen of t	material leaks from the panel, it is recommended	n portrait and n for a long tin of time, the in se a screen sav ge variation, in so on) Otherw cility and avoi r cold to hot) hot ,produces to LCD. han the operat of or out of or returns to the n to wash the LC by thoroughly y duce vomiting 15 minutes.	ne. mage may be ver. put voltage vise the Module d to expose to ,the LCD may dew on the ing temperature above its der with the recommended C with acetone or with soap. and follow
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(3) Box label	BOE Technology Group Co	o., Ltd.	
CONTRACTOR AND	000000000-XXX ① QTY: XX ② XXXXXXX ③ DATE: 20XX.XXX XXXXX ⑤	xx ④	
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13.0 PACKING I	NFORMATION			
将 EPE Bottom 放入纸箱P	5	将LCM装入PE袋中,并 的LCM依次放入Botto 朝向EPE平面侧,注意 避免元器件与Bottom	m对应的卡槽内, PCB应放置于EPE	PCB朝下, Panel侧
	Step 1		Panel侧 日子 背光侧	LCM EPE Bottom Step 2
将 EPE Cover 盖在 Bottor 容量: 9 LCM/Box, 9 PE	n 上,再将纸箱用胶带封装 Bag/Box	将16ea 封装好的纸箱放 容量:144 LCM/Palle		衫排布
	Step 3			Step 4
放置8ea纸护角,用缠绕裹 形固定	驱(≥3层)再用打包带"井"字	厢车装载方式:两横摆 厢车装载量_12m:316		
	Step 5	增加充气袋 2.35米 2.35米	12#	Step 6
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