



Hunan Huayuan display technology CO.,LTD

GH320240-5703

STN DOTS LCD MODULE

SPECIFICATION

Standard code	Department	Rev No.
		A/0
Checked by	Written by	Date
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1、 GENERAL SPECIFICATIONS

Screen size	5.7"(Diagonal)
Display color	Display color: White Background color: Blue
Type	STN
Viewangle direction	12'clock
Driver mode	1/240 DUTY 1/16 BIAS
Backlight	LED
Controller IC	RA8835
Driver IC	IST3025T IST3026T
Data bus	8080 interface and 8-bit
Temperature range	Operation: -20 °C ---- +70°C Storage: -30 °C ---- +80°C
Numbr of Dots	320 x 240
Dot size	0.33 x 0.33mm
Dot pitch	0.36 x 0.36mm
Viewing size	122.0 x 92.0mm
Active area	115.17 x 86.37mm
Outline dimension	160.4 x 109.0 x10.6mm Max.
Weight	172.0g

2、 ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Min	Type	Max	Unit	
Supply voltage for logic	$V_{DD}-V_{SS}$	4.8	5.0	5.2	V	
Supply Voltage for LCD Driving	$V_{SS}-V_0$	Ta=0 °C	-	21.7		-
		Ta=25 °C	20.8	21.2		21.6
		Ta=50 °C	-	20.7		-
Input Voltage	V_{IH}	0.7 V_{DD}	-	V_{DD}		V
	V_{IL}	0	-	0.3 V_{DD}		
Supply current	I_{DD}	Bakelight	-	40	50	
		Without LED	-	220	250	mA
Supply Voltage for LED	V_{LED}	-	5.0	5.2	V	
Supply Current for LED	I_{LED}	-	180	200	mA	

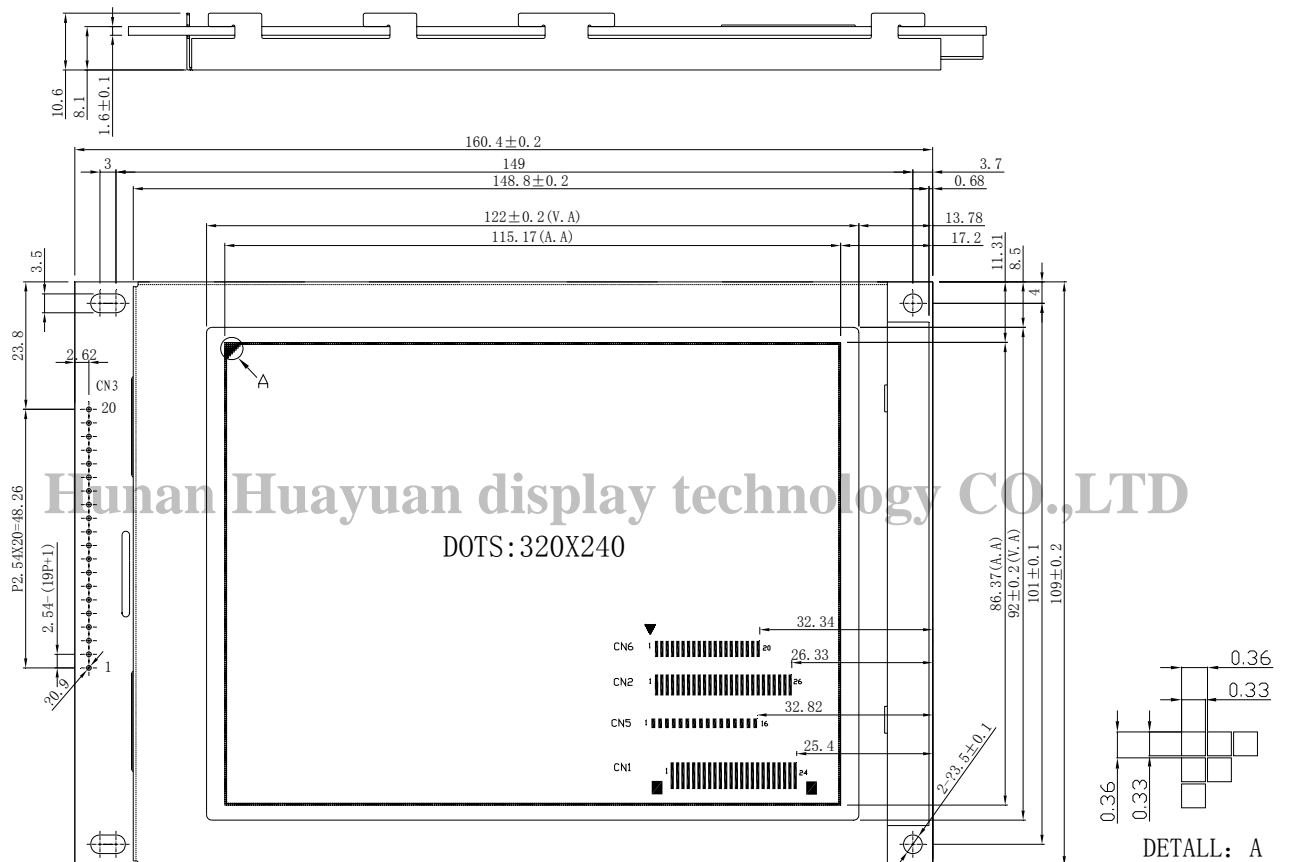
3、 ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Min	Max	Unit	Remark
Supply voltage for logic	$V_{DD}-V_{SS}$	-0.3	7.0	V	
Supply Voltage for LCD Driving	$V_{LCD}-V_{DD}$	-0.3	26		
Operating temperature	T_{OP}	-20	+70	°C	
Storage temperature	T_{ST}	-30	+80		
Humidity	RH :	90%	50		(Max)

4、 OPTICAL CHARACTERISTICS

Item	Symbol	Conditon	Typ.	Unit	Remark
Viewing angle	$\varnothing f$	$C_R \geq 2$	40	Radian	$\varnothing f$
	$\varnothing b$		30		$\varnothing b$
	$\varnothing l$		30		$\varnothing l$
	$\varnothing r$		30		$\varnothing r$
Response time	T_R	TA=25 °C	120	ms	
	T_F		130		
Frame Frequency	F_{RM}		64	Hz	
Contrast ratio	C_R		6.0	-	

5、 EXTERNAL DIMENSIONS



6、 INTERFACE DESCRIPTION

1) CN1: 1~24P

PIN	DESC	Function
1	RST	Reset signal
2	RD	Read Control
3	WR	Write Control
4	CS	Chip Select
5	A0	Command/Data Select
6~13	D0-D7	Data Bus
14	VDD	Power supply for Logic circuit and LCD

15	VSS	Power supply for Logic circuit and LCD
16	VEE	Negative voltage output
17	V0	Contrast adjust
18	DCLK	External clock input (AD7843)
19	DOUT	Data Output (AD7843)
20	INT	Data input (AD7843)
21	CS-T	Chip Select (AD7843)
22	DIN	Data input (AD7843)
23	LEDA	LED+
24	LEDK	LED-

2) CN3: 1~20P

PIN	DESC	Function
1	VSS	Ground
2	VCC	Power supply for Logic circuit and LCD
3	V0	Contrast adjust
4	RW	Write Control
5	RD	Read Control
6	CS	Chip Select
7	A0	Command/Data Select
8	RST	Reset signal
9~16	D0-D7	Data Bus
17	NC	--
18	VEE	Negative voltage output
19	A	LED+
20	K	LED-

3) CN2: 1~26P

PIN	DESC	Function
1	VSS	Ground
2	VDD	Power supply for Logic circuit and LCD
3	V0	Contrast adjust
4	A0	Command/Data Select
5	WR	Write Control
6	RD	Read Control
7~14	D0-D7	Data Bus
15	CS	Chip Select
16	RST	Reset signal
17	VEE	Negative voltage output
18	SEL1	8080 or 6800 interface selection
19	DCLK	External clock input (AD7843)
20	CS-T	Chip Select (AD7843)
21	INT / LEDA	INT# : Busy Signal (AD7843) / LEDA: LED+
22	DOUT / LEDK	DO: Data Output (AD7843) / LEDK: LED-
23	DIN / LEDA	IN: Data input (AD7843) / LEDA: LED+
24	LEDK / NC	LEDK: LED-。 / --
25	N3 / NC	--
26	N4 / NC	--

4) CN5: 1~16P

PIN	DESC	Function
1	VSS	Ground
2	VDD	Power supply for Logic circuit and LCD
3	V0	Contrast adjust
4	VO	Contrast adjust
5	WR	Write Control
6	RD	Read Control
7	CS	Chip Select
8	A0	Command/Data Select
9~16	D0-D7	Data Bus

5) CN6: 1~20P

PIN	DESC	Function
1	VSS	Ground
2	VDD	Power supply for Logic circuit and LCD
3	V0	Contrast adjust
4	WR	Write Control
5	RD	Read Control
6	CS	Chip Select
7	A0	Command/Data Select
8	RST	Reset signal
9~16	D0-D7	Data Bus
17	NC	--
18	VEE	Negative voltage output
19	A	LED+
20	K	LED-

7、 BLOCK DIAGRAM

