Next Vision Display
Brighten The Future

NEXT VISION DISPLAY

SPECIFICATION

CUSTOMER : _____

MODULE NO.: NT024-N002DL

Version	1.0
Engineer	
Date	2014-07-04

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Customer:
Approved by

NEXT VISION DISPLAY CO., LTD.

地址: 中國上海小木橋路600號
ADD: 600 XIAO MU QIAO ROAD, SHANGHAI, CHINA

WEB: www.nextvisiondisplay.com

TECHNICAL: technical@nextvisiondisplay.com
MARKETING: marketing@nextvisiondisplay.com
SALES: sales@nextvisiondisplay.com

1. Scope

This data sheet is to introduce the specification of NT024-N002DL, active matrix TFT module. It is composed of a color TFT-LCD panel, driver ICs, FPC, a backlight unit and the all viewing-angle film. The 2.4'' display area contains 240(RGB) x320 pixels.

2. Application

Digital equipments which need color display, mobile phone, mobile navigator/video systems.

3. General Information

Item	Contents	Unit
Size	2.4	inch
Resolution	240(RGB) x 320	/
Interface	CPU 16-bit	/
Technology type	a-Si TFT	/
Pixel pitch	0.153 x 0.153	mm
Pixel Configuration	R.G.B. Vertical Stripe	
Viewing Direction	6 o'clock	
Outline Dimension (W x H x D)	42.72 x 60.35 x 2.90	mm
Active Area	36.72 x 48.96	mm
Display Mode	Transmissive, Normally white	/
Surface Polarizer	Glare type	/
Backlight Type	6 LEDs series	/
Driver IC	ILI9341	

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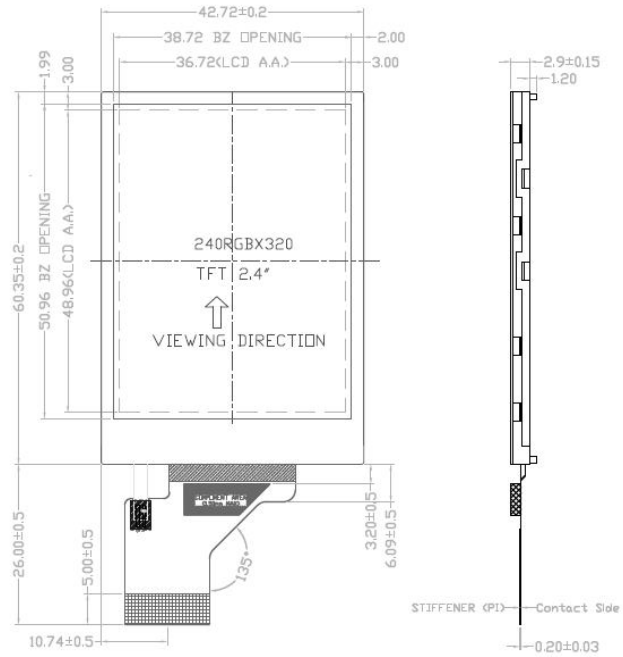
4. Interface signals

No	Symbol	I/O	Description	Remarks
1, 2	+2.8V	P	Power VCC = +2.8V	
3	GND	P	Power Ground	
4	+2.8V	P	Power VCC = +2.8V	
5~6	GND	P	Power Ground	
7	RESX	I	Reset signal	
8~10	GND	P	Power Ground	
11	NC	-	No connection	
12~19	D15 ~ D8	I	Data bus	
20	GND	P	Power Ground	
21~28	D7~D0	I	Data bus	
29~31	GND	P	Power Ground	
32	RDX	I	Read signal and MCU read data	
33	WRX	I	Write signal and writes data	
34	D/CX	I	Data or command select	
35	CS	I	Chip select input pin (“Low” enable)	
36	GND	P	Power Ground	
37	LEDA	P	Power input for backlight (+)	
38, 39	LEDK	P	Power input for backlight (-)	
40~45	NC	-	No connection	

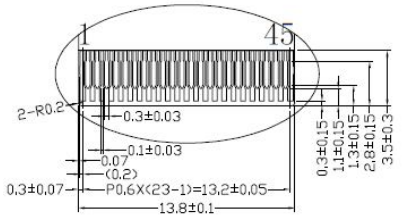
Note 1: P ---- Power; I ---- Input; O ---- Output.
Note 2: Matching connector P/N: FH23-45S-0.3SHW (Hirose) or Eqv.

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4. Outline Drawing







2.5:1

PINS ASSIGNMENT:	
1	+2.8V
2	+2.8V
3	GND
4	+2.8V
5	GND
6	GND
7	RESX
8	GND
9	GND
10	GND
11	NC
12	D15
13	D14
14	D13
15	D12
16	D11
17	D10
18	D9
19	D8
20	GND
21	D7
22	D6
23	D5
24	D4
25	D3
26	D2
27	D1
28	D0
29	GND
30	GND
31	GND
32	RDX
33	WRX
34	D/CX
35	CSX
36	GND
37	LEDA
38	LEDK
39	LEDK
40	N/C
41	N/C
42	N/C
43	N/C
44	N/C
45	N/C

ILI9341 MCU Sytem Interface Configuration
(8080 MCU 16-bit Interface I):

ILI9341 pin	Logic Level
IM3	0
IM2	0
IM1	0
IM0	1

NOTES:

1. Display Type: 2.4" QVGA a-Si TFT, Transmisive
2. Driver IC: ILI9341
3. Viewing Direction: 6 O'clock
4. Operating Temperature: -20° ~ +70°
5. Storage Temperature: -30° ~ +80°
6. Backlight Type: 6 White LEDS
7. BL Input Current: 20 mA
8. LCM Brightness: 1000 nits (Typ.)
9. RoHS compliance



Backlight Circuit

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DRAWN BY:	NT024-N002DL		
CHECKED BY:			
APPROVED BY:	DWG NO:	SCALE:	
CONFIRMED BY:	DWG NAME:	UNIT: mm	SHEET NO: OF