

NEXT VISION DISPLAY

SPECIFICATION

CUSTOMER : _____

MODULE NO.: 721201-A _____

Version	1
Engineer	
Date	20/01/2023

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

Represented by:



FIRST Components s.r.l.
www.first-components.com
sales@first-components.com
+39 0332 1888005

Application

This specification is applied to the 5 inch 720×1280 pixels resolution TFT-LCD module and can display true 16.7M color (8 bit/ color). This module is composed of a 5" TFT-LCD panel, a driver circuit and backlight unit

Features

720×1280 pixels resolution.

MIPI Interface: 4 Data Lanes.

General Specifications

Item	Specifications	Unit
Screen Size	5 (Diagonal)	inch
Display Format	720RGB(H)×1280(V)	dot
Active Area	62.1(H)×110.4(V)	mm
Pixel Size	0.02875(H)×0.08625(V)	mm
Pixel Configuration	RGB Vertical Stripe	-
Display Mode	IPS Type Transmissive Mode Normally Black	-
Surface Treatment	Clear	-
Viewing Direction	Full view angle	-
Outline Dimension	66.4(W)×120.05(H)×2.05(D)	mm
Driver IC	ST7703	

Absolute Maximum Ratings

Absolute Ratings of Environment

Item	Symbol	Value		Unit
		Min.	Max.	
Storage Temperature	T _{ST}	-30	+80	°C
Operating Temperature	T _{OP}	-20	+70	°C

Electrical Absolute Ratings

TFT-LCD Module

(Ta=25±2°C, V_{SS}=0V)

Item	Symbol	Value		Unit	Note
		Min.	Max.		
Power Supply of logic circuit	IOVCC	-0.3	+5.5	V	-
Power Supply for analog circuit	VCI	-0.3	+6.6	V	-

Backlight Unit

(Ta=25±2°C)

Item	Symbol	Value		Unit
		Min.	Max.	
Current of Backlight Unit	IB	-	60	mA
Voltage of Backlight Unit	VB	-	30	V

Electrical Characteristics

TFT-LCD Module

(Ta=25±2°C)

Item	Symbol	Value			Unit
		Min.	Typ.	Max.	
Power Supply of logic circuit	IOVCC	1.65	1.8	2.0	V
Power Supply for analog circuit	VCI	2.5	2.8	3.3	
Input High Threshold Voltage	VIH	0.7IOVCC	-	IOVCC	V
Input Low Threshold Voltage	VIL	GND	-	0.3IOVCC	V
Power Supply of logic circuit Current	ICC	-	32.2	45	mA
Power Supply for analog circuit Current	ICI		13	18.2	mA

Backlight Unit

(Ta=25±2°C)

Item	Symbol	Value			Unit	Note
		Min.	Typ.	Max.		
Current of Backlight Unit	IB	-	40	-	mA	-
Voltage of Backlight Unit	VB	-	(19.2)	-	V	IB=40mA,(2)
LED Life Time(25°C)	-	30000	50000	-	hr	(1)

Note (1) : LED life time is defined as under 25±2°C , when the average brightness decrease to 50% of original brightness.

Note (2) : The BLU is driven by constant current, the voltage value is for reference only.

Input / Output Terminals Pin Assignment

TFT-LCD Module

Pin No.	Symbol	Description
1	GND	Ground
2	D0P	DATA0+ differential data signals.
3	D0N	DATA0- differential data signals.
4	GND	Ground
5	D1P	DATA1+ differential data signals.
6	D1N	DATA1- differential data signals.
7	GND	Ground
8	CLKP	CLK+ differential clock signals.
9	CLKN	CLK- differential clock signals.
10	GND	Ground
11	D2P	DATA2+ differential data signals.
12	D2N	DATA2- differential data signals.
13	GND	Ground
14	D3P	DATA3+ differential data signals.
15	D3N	DATA3- differential data signals.
16	GND	Ground
17	GND	Ground
18	IOVCC	Power supply
19	IOVCC	Power supply
20~23	NC	NC
24	RESET	Reset input signal input terminal, active at "L"
25~26	NC	NC
27	GND	Ground
28~29	VLEDK	LED Cathode
30	GND	Ground
31	NC	NC
32~33	GND	Ground
34	NC	NC
35~36	VLEDA	LED Anode
37	GND	Ground
38~39	VCI	Power supply
40	NC	NC

Outline Drawing

