



GENERAL INFORMATION		
Item	Contents	Unit
LCD Size	3.5	Inch
Number Of Pixels	320(H)RGB×240(V)	---
Pixel Pitch	0.219(H)×RGB×0.219(V)	mm
Active Area	70.08(H)×52.56(V)	mm
Viewing area (W x H)	72.88 x 55.36	mm
LCM outline (W x H x T)	76.9(W)×63.9(H)×3.1(D)	mm
Display mode	IPS,NB	---
View angle (L/R/U/D)	70/70/70/70	Degree
TFT Driver IC	ST7272A	---
Interface Type	SPI+RGB	---
Color depth	16.7	M
LCM brightness	MIN 450	Cd/m ²
With/Without tp	/	---
TFT Power consumption	237.6	mw
BL Power consumption	360	mw
Operation Temperature	-20~70	°C
LED life time	30,000	Hrs

INTERFACE DESCRIPTION			
No.	SYMBOL	I/O	Description
1-2	VLED-	P	Power for LED backlight (Cathode)
3-4	VLED+	P	Power for LED backlight (Anode)
5	NC(YU)	-	NC(Touch panel Top Film Terminal)
6	NC(XR)	-	NC(Touch panel Right Glass Terminal)
7	NC	-	No connection.
8	RESET	I	Global reset. Active low, Internal pull high.
9	CS	I	Serial communication chip selection.
10	SCL	I	Serial communication clock input.
11	SDI	I	Serial communication data input.
12-19	B0-B7	I	Blue data input
20-27	G0-G7	I	Green data input.
28-35	R0-R7	I	Red data input.
36	HSYNC	I	Horizontal sync signal.
37	VSYNC	I	Vertical sync signal.
38	DCLK	I	Pixel clock input pin.
39-40	NC	-	No connection.
41	VDDI	P	Power Supply for I/O.
42	VDD	P	Power Supply for Logic.
43	NC(YD)	-	NC(Touch panel Bottom Film Terminal).
44	NC(XL)	-	NC(Touch panel LEFT Glass Terminal).
45-51	NC	-	No connection.
52	ENB	I	Display enable pin from controller.
53	GND	P	System ground.
54	AVSS	P	Ground for digital circuits.

ELECTRICAL CHARACTERISTICS					
Parameter	Symbol	Min.	Typ.	Max.	Unit
Power Supply Voltage	VDD	3.0	3.3	3.6	V
IO Supply Voltage	VDDI	3.0	3.3	3.6	V
Input logic high voltage	VIH	0.7VDDI	-	VDDI	V
Input logic low voltage	VIL	0	-	0.3VDDI	V
Output logic high voltage	VOH	VDDI-0.4	-	VDDI	V
Output logic low voltage	VOL	0	-	0.4	V

BACKLIGHT DRIVING CONDITION					
Item	Symbol	Min	Typ.	Max	Unit
Forward current	If	--	--	140	mA
Forward voltage	Vf	8.4	9.6	10.2	V