



Pin Connections

Pin	Symbol	I/O	Function
1	GND	0V	Power ground
2	V _{DDI}	+2.8V	Power supply for I/O system
3	V _{DD}	+2.8V	Power supply
4	/CS	H/L	Chip select,active“L”
5	/RST	H/L	Reset signal,active“L”
6	D/C	H/L	Display data/command selection : H:Data ,L:Command
7	/WR	H/L	Write signal
8	/RD	H/L	Read signal
9~16	DB0~DB7	H/L	Data bus
17	LEDA	+3.1V	Power supply for LED backlight anode
18	LEDK1	0V	Power supply for LED backlight cathode
19	LEDK2	0V	Power supply for LED backlight cathode
20	GND	0V	Power ground
21~24	NC	-	No connection

Basic Specifications

Item	Specifications
Size	1.77 inch
Resolution	128 × 3(RGB) × 160
Color depth	262K
Viewing direction	12 o'clock
Operation temperature	-20 °C ~70 °C
Storage temperature	-30 °C ~ 80 °C
Driver IC	ILI9163V
Interface type	8 bits 80-serials parallel MPU interface

DC Electrical Characteristics&Backlight Driving Conditions

Item	Symbol	Min.	Typ.	Max.	Unit
Power supply	V _{DD}	2.5	2.8	3.3	V
Power supply for I/O system	V _{DDI}	2.5	2.8	3.3	V
Supply current	I _{DD}	-	-	-	mA
Input signal voltage	V _{IH}	0.7 V _{DDI}	-	V _{DDI}	V
	V _{IL}	GND	-	0.3 V _{DDI}	V
Output signal voltage	V _{OH}	0.8 V _{DDI}	-	V _{DDI}	V
	V _{OL}	GND	-	0.2 V _{DDI}	V
Power supply for LED backlight	V _F	2.8	3.1	3.3	V
Current for LED backlight	I _F	-	30	40	mA
Operating life time for LED backlight	Ta=25°C and I _F =30mA	-	20000	-	Hrs

Optical Specifications

Item	Symbol	Condition	Min.	Typ.	Max.	Unit	
View angles	VERT	θ _T	CR ≥ 10 (Note)	35	45	-	Degree
		θ _B		10	20	-	
	HOR	θ _L		35	45	-	
		θ _R		35	45	-	
Contrast ratio	CR	θ=0°	400	500	-		
Chromaticity	White	X	Backlight is on	0.25	0.30	0.35	
		Y		0.25	0.30	0.35	
Luminance	L	Ta=25°C and I _F =30mA	-	850	-	cd/m ²	

Note:

T:Top 12 o'clock; B:Bottom 6 o'clock; L:Left 9 o'clock; R:Right 3 o'clock