

DATASHEET

EVERVISION

— Sunlight Readable TFT

— High Brightness TFT

VGG804823-6UFLWS



Application

This specification is applied to the 8.0 inch WVGA supported TFT-LCD module With projected capacitive touch (PCT), and can display true 16M colors(8 bit/ color). The module is designed for OA, Car TV application and other electronic products which require flat panel display of digital signal interface. This module is composed of a 8.0" TFT-LCD panel, a driver circuit and LED backlight unit.

Features

- WVGA (800×480 pixels) resolution.
- LED driver circuit is built in this module.
- HDMI Interface.

General Specifications

Item	Specifications	Unit
Screen Size	8.0 (Diagonal)	inch
Display Format	800RGB(H)×480(V)	dot
Active Area	176.64(H)×99.36(V)	mm
Pixel Size	0.0736(H)×0.2070(V)	mm
Pixel Configuration	RGB Vertical Stripe	-
Display Mode	TN Type Transmissive Mode Normally White	-
Surface Treatment	Anti-Glare and Hard Coating(3H)	-
Viewing Direction	6 O'clock (The Gray Inversion will appear at this direction)	-
Outline Dimension	192.8(W)×116.9(H)×13.45(D)	mm

Absolute Maximum Ratings

Absolute Ratings of Environment

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

Electrical Absolute Ratings

TFT-LCD Module

(Ta=25±2°C, GND=V_{SS}=0V)

Item	Symbol	Value		Unit	Note
		Min.	Max.		
Power Supply Voltage	VCC	-0.3	24	V	-
BLEN	PWM	-0.3	6	V	

Electrical Characteristics

TFT-LCD Module

(Ta=25±2°C)

Item	Symbol	Value			Unit
		Min.	Typ.	Max.	
Power Supply Voltage	VCC	11.5	12.0	12.5	V
Power Supply Current	ICC	-	500	700	mA
VSYNC Frequency	F _V	-	60	-	Hz
DCLK Frequency	DCLK	-	33.26	-	MHz
PWM signal Low voltage	V _{PWML}	0	-	0.4	V
PWM signal High voltage	V _{PWMH}	1.5	-	5	V
PWM frequency	f _{PWM}	100	-	1000	Hz
LED Life Time(25°C)	-	50000	-	-	hr

Input / Output Terminals Pin Assignment

Connector: Mini-HDMI Connector

No.	Symbol	I/O	Description
1	TMDS Data2 Shield	I	Ground
2	TMDS Data2+	I	Channel-2 positive receiver input – Positive side of channel-2 TMDS low-voltage signal differential input pair. Channel-2 receives red-pixel data in active display and CTL2, CTL3 control signals in blank.
3	TMDS Data2–	I	Channel-2 negative receiver input – Negative side of channel-2 TMDS low-voltage signal differential input pair.
4	TMDS Data1 Shield	I	Ground
5	TMDS Data1+	I	Channel-1 positive receiver input – Positive side of channel-1 TMDS low-voltage signal differential input pair. Channel-1 receives green-pixel data in active display and CTL1 control signals in blank.
6	TMDS Data1–	I	Channel-1 negative receiver input – Negative side of channel-1 TMDS low-voltage signal differential input pair.
7	TMDS Data0 Shield	I	Ground
8	TMDS Data0+	I	Channel-0 positive receiver input – Positive side of channel-0. TMDS low-voltage signal differential input pair. Channel-0 receives blue pixel data in active display and HSYNC, VSYNC control signals in blank.
9	TMDS Data0–	I	Channel-0 negative receiver input – Negative side of channel-0. TMDS low-voltage signal differential input pair.
10	TMDS Clock Shield	I	Ground

No.	Symbol	I/O	Description
11	TMDS Clock+	I	Clock positive receiver input – Positive side of reference clock. TMDS low-voltage signal differential input pair
12	TMDS Clock–	I	Clock negative receiver input – Negative side of reference clock. TMDS low-voltage signal differential input pair
13	DDC Ground	I	Ground
14	N.C.	I	Not Connection
15	DCC_SCL	I	Serial Clock for EEPROM
16	DCC_SDA	I	Serial Data for EEPROM
17	Reserved (N.C. on device)	I	Not Connection
18	+5V Power	I	5V for EEPROM
19	HPD	I	Hot Plug Detect High: Active link Low: Inactive link

Connector

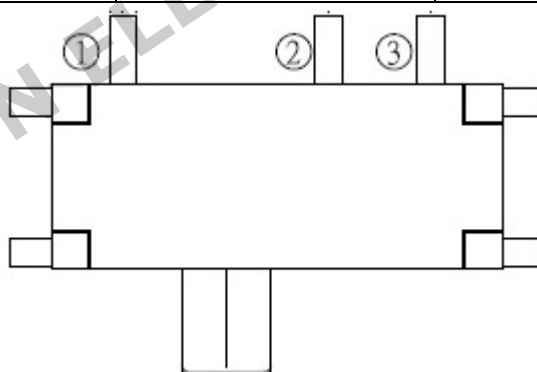
Connector: CI4406M2HR0 or compatible connector

No.	Symbol	Functions
1	VCC	Power supply for LCM
2	VCC	Power supply for LCM
3	BLDN	PWM Dimmer (Note 1)
4	NC	Not Connected
5	GND	Ground
6	GND	Ground

Note 1: PWM dimming, apply a 100Hz to 1kHz square wave signal with amplitude greater than 1.5V to this pin.

Slider Switch

Pin	Description	Note
1-2	PWM Dimmer	Default
2-3	HDMI Detection	-



Outline Drawing

