



320x480 Serial Lcd Display Module SPI MCU RGB MIPI Multi Interface

Our Product Introduction

Basic Information

- Place of Origin: ShenZhen, China
- Brand Name: Chenghao/Oem
- Certification: ROHS ISO9001 CE
- Model Number: CH350HV16A
- Minimum Order Quantity: 100 pcs
- Price: /
- Packaging Details: All the products are packed in right way to keep it safe. For small sizes of products we use tray + carton, For bigger sizes we use foam slot + carton. we also design packages according to customers' requirements
- Delivery Time: 7-15 working days
- Payment Terms: T/T
- Supply Ability: 300Kpcs/month



Product Specification

- Product Name: 320x480 Serial Lcd Display Module
- Driver IC: ST7796S
- Module Size: 55.66(W)×85.04(H)×2.4(T) Mm
- Active Area: 48.96(W)×73.44(H) Mm
- Dot Pitch: 0.153(W)×0.153(H) Mm
- Interface: SPI MCU RGB MIPI
- Operating Temperature: -20 ~ +70 °C
- Highlight: Multi Interface Tft Lcd Panel,
CH350HV16A Lcd Display Module,
ROHS Protection Lcd Display Module



320x480 Serial Lcd Display Module SPI MCU RGB MIP Multi-Interface

ITEM	STANDARD VALUES	UNITS
LCD type	3.5" TFT	--
Dot arrangement	320(RGB)× 480	dots
Driver IC	ST7796	--
Module size	55.66(W)×85.04(H)×2.4(T)	mm
Active area	48.96(W)×73.44(H)	mm
Dot pitch	0.153(W)×0.153(H)	mm
Operating temperature	- 20 ~ + 70	°C
Storage temperature	- 30 ~ + 80	°C
Back Light	6 White LED in serial	--
Weight	TBD	g

ChengHao Display model CH350HV16A is a color active matrix TFT (thin film transistor) LCD (liquid crystal display) that uses amorphous silicon TFT as a switching device, mainly including a Tn TFT Lcd Panel, driver IC, backlight (BL) and FPC several part.

The Tft Lcd Panel has a color display area with a diagonal measurement of 3.5 inch, which can display 320*480 resolution images.

The driver IC used is ST7796, which is mounted on glass and interconnected with other components through FPC. Support SPI/MCU/RGB/MIPI Multi-interface.

The FPC and BL can be customized according to customer needs, including the brightness of BL, the shape and structure of FPC, etc.

In addition, CH350HV16A supports the installation and removal of touch functions, such as capacitive touch panel and Resistive touch panel.

Comply with CE and ROHS standards.

Notes:

- (1) Display Type : 3.5 inch tft
- (2) Viewing Direction : 6:00
- (3) Polarizer Mode : Transmission / Positive
- (4) Operating Temp : -20~70 °C
- (5) Storage Temp : -30~80 °C
- (6) Unmarker Tolerance: ± 0.20
- (7) Protection : ROHS





5. Absolute Maximum Ratings

Item	Symbol	Min.	Max.	Unit
Logic Supply Voltage	IOVCC	-0.3	4.6	V
Analog Supply Voltage	VCI	-0.3	4.6	V
Input Voltage	Vin	-0.5	IOVCC+0.5	V
Operating Temperature	TOP	-20	70	°C
Storage Temperature	TST	-30	80	°C
Storage Humidity	HD	20	90	%RH

6. Quick detail of 3.5 inch tft screen module

Diagonal Display Size: 3.5 inch
 Interface Type:
 4-lines_8bit / 3-lines_9bit SPI
 8-/ 9-/16-/18-bit8080-series system interface
 16-/18-bitRGB interface
 MIPI
 Resolution: 320(RGB)x480 pixels
 Touch Screen: No
 Backlight Type: LED
 Display Mode: Tn / Transmissive
 Dimensions:55.66(W)x85.04(H)x2.4(T) mm
 Display Matrix Technology: TFT
 Minimum Operating Temperature: -20°C
 Maximum Operating Temperature: +70°C
 Brightness: 300 cd/m²
 Number of Colours:262K/65K
 Standards Met: CE, RoHS Compliant
 Response Time: 10ms
 Operating Temperature Range: -20 → +70°C
 Contrast Ratio: 500
 Display Type: LCD TFT
 FPC Number: 50
 Driver IC : ST7796



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