

CH350HV47C-L 3.5 Inch 320x480 IPS TFT LCD Display Module with SPI and Thick Glass Cover

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: chenghao optoelectronic
- Certification: RoHS & CE & FCC
- Model Number: CH350HV47C-L
- Minimum Order Quantity: 100 pcs
- Price: Contact us for quotation
- Packaging Details: Standard Export Package
- Delivery Time: 7-15 work days
- Payment Terms: T/T
- Supply Ability: 300,000 pieces/month



Product Specification

- Module No: CH350HV47C-L
- Display Mode: IPS / Transmissive / Normally Black
- Screen Size: 3.5 Inch
- Resolution: 320 X 480 Dots
- Viewing Direction: 80/80/80/80
- Screen Brightness: 800 Cd/m² (min.)
- Module Interface: SPI
- FPC Pin Numbers: 10
- Operating Temperature: -25°C To +70°C
- Storage Temperature: -30°C To +80°C
- Module Size: 58.00 X 86.00 X 4.10 Mm
- Active Area Size: 48.96 X 73.44 Mm



More Images



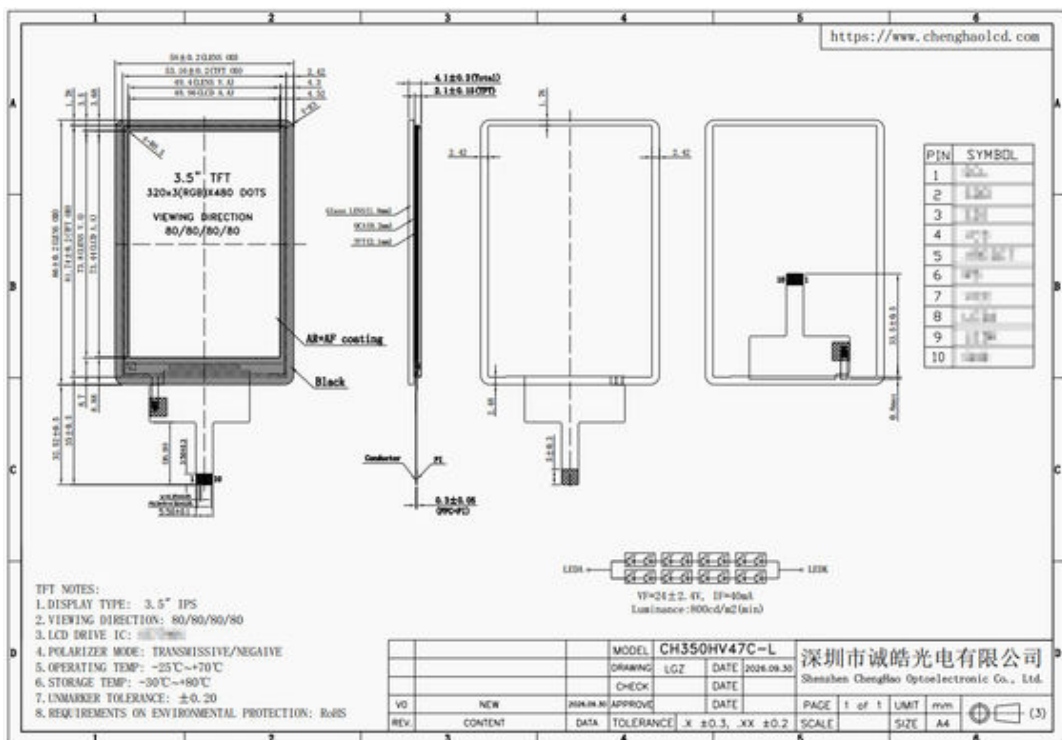
Product Description

The CH350HV47C-L is a 3.5 inch IPS TFT LCD display module with a 320 x 480 pixel resolution and full 80/80/80/80 viewing angles. Its transmissive, normally black panel delivers a minimum brightness of 800 cd/m² through a 10-pin SPI interface. The module combines a 2.1 mm TFT assembly with a 1.8 mm glass cover lens and 0.2 mm optical adhesive for a total thickness of approximately 4.1 mm. The active area measures 48.96 x 73.44 mm, and the outline is 58.00 x 86.00 mm. It operates from -25°C to +70°C and can be stored from -30°C to +80°C. This assembly is suited to compact embedded equipment that needs a bright display and a protective front surface. FPC, interface, brightness, anti-glare coating, and cover glass options can be adapted to project requirements.

Product Features

- 3.5 inch IPS TFT LCD module with a 320 x 480 resolution and full 80/80/80/80 viewing angles.
- 800 cd/m² minimum brightness for clear information display in compact equipment.
- Ten-pin SPI interface with a bonded 1.8 mm glass cover lens and 0.2 mm optical adhesive.
- Approximately 4.1 mm total thickness, wide temperature operation, and RoHS-compliant construction.

Product Drawing



Detailed Specifications

Item	Specification
Module Name	3.5 inch 320 x 480 IPS TFT LCD Display Module with Glass Cover
Module No	CH350HV47C-L

Item	Specification
Display Mode	IPS / Transmissive / Normally Black
Screen Size	3.5 inch
Resolution	320 x 480 dots
Viewing Direction	80/80/80/80
Screen Brightness	800 cd/m ² (min.)
Module Interface	SPI
FPC Pin Numbers	10
Operating Temperature	-25°C to +70°C
Storage Temperature	-30°C to +80°C
Module Size	58.00 x 86.00 x 4.10 mm
Active Area Size	48.96 x 73.44 mm
Touch Type	No touch

Customized Introduction

Customization is available for cover lens, optical bonding, FPC, and interface requirements. Glass dimensions, thickness, corner radius, coating, and view-window layout can be adapted to the enclosure and front-panel design. Anti-glare and anti-reflection treatments can be selected according to the lighting environment. FPC shape, pin assignment, connector position, and cable direction can be reviewed against the host board. Brightness and backlight configuration can be adjusted for the required viewing conditions, while SPI signal details and initialization support can be coordinated during integration. Mechanical tolerances, active-area alignment, operating conditions, and packaging requirements are confirmed against the approved drawing before production. Samples can be evaluated with the final front panel, connector, and viewing position to support stable assembly.

Application Cases

- Handheld industrial controllers use the compact 3.5 inch display for parameter entry, status indicators, and operating menus. The bright IPS panel supports clear viewing from multiple positions.
- Medical and laboratory instruments can use the 320 x 480 layout for measurements, controls, and warning messages. The bonded glass cover provides a protective front surface.
- Outdoor instruments benefit from the 800 cd/m² brightness and full viewing angles for field readings and equipment configuration. The SPI connection supports compact embedded control boards.
- Embedded control terminals can use the 10-pin FPC and glass cover options to match internal cabling and front-panel requirements. Anti-glare treatment can be specified for bright environments.

PRODUCT FAQ

FAQ

Q1: What is the resolution of the CH350HV47C-L?

The module has a 320 x 480 pixel resolution on a 3.5 inch IPS TFT LCD panel.

Q2: Which interface does this display use?

It uses a 10-pin SPI interface.

Q3: How bright is the display?

The minimum brightness is 800 cd/m², with viewing angles of 80/80/80/80.

Q4: Does the module include a protective cover?

Yes. It includes a bonded 1.8 mm glass cover lens with a 0.2 mm optical adhesive layer, and cover glass options can be customized.



Shenzhen ChengHao Optoelectronic Co., Ltd.



+86 755-27806536



add@chenghaolcm.com



chenghaolcd.com

7th floor, building C5, Hengfeng Industrial City, Hangcheng street, Bao'an District, Shenzhen