



# Ultra-thin 1080x1240 4 inch AMOLED Display Module with MIPI Interface for Digital electronics

Our Product Introduction

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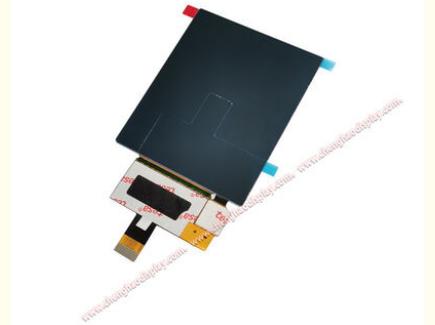
## Basic Information

- Brand Name: Chenghao Optoelectronic
- Certification: CE、RoHS、FCC
- Model Number: CH400OL001A
- Minimum Order Quantity: NO MOQ
- 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: 3~5 Working Days
- Payment Terms: TT Or Others
- Supply Ability: 300K Pcs/month



## Product Specification

- Resolution: 1080\*1240 Dots
- Active Area Size: 65.448\*75.144 Mm
- Screen Brightness: 600 Cd/m2
- Display Type: 3.92" AMOLED
- Operating Temperature: -10 ~ +60
- OLED Interface: MIPI
- Storage Temperature: -20 ~ +70
- FPC Pin Numbers: 38
- Highlight: 4 inch AMOLED display module, MIPI interface OLED display, ultra-thin 1080x1240 display module



## More Images





## Product Description

### Product Description:

The CH400OL001A is a premium 4-inch (3.92-inch exact) AMOLED display module designed for high-performance applications requiring an ultra-thin form factor and exceptional visual clarity. Featuring a high resolution of 1080x1240 and utilizing active-matrix OLED technology, this screen delivers exceptionally detailed images and vibrant colors, making it an ideal space-saving display solution for next-generation digital electronic devices and handheld medical instruments. The module employs a MIPI 4-channel interface, ensuring high-speed data transmission while maintaining low power consumption, crucial for battery-powered IoT devices.



Integrating the CH\*\*\*\* driver IC and FT\*\*\* touch IC, it achieves a responsive user interface within an extremely compact structure. With an ultra-thin thickness of only 1.2mm Max and full viewing angles, this module provides engineers with maximum design flexibility without sacrificing optical performance. The module operates within a temperature range of -10°C to +60°C and complies with RoHS standards, ensuring compliance with international environmental and reliability standards for commercial and industrial electronic products.

### Features:

**Ultra-High Pixel Density:** The 1080x1240 resolution provides a crystal-clear display effect, perfect for rendering complex UI elements in small-form-factor devices.

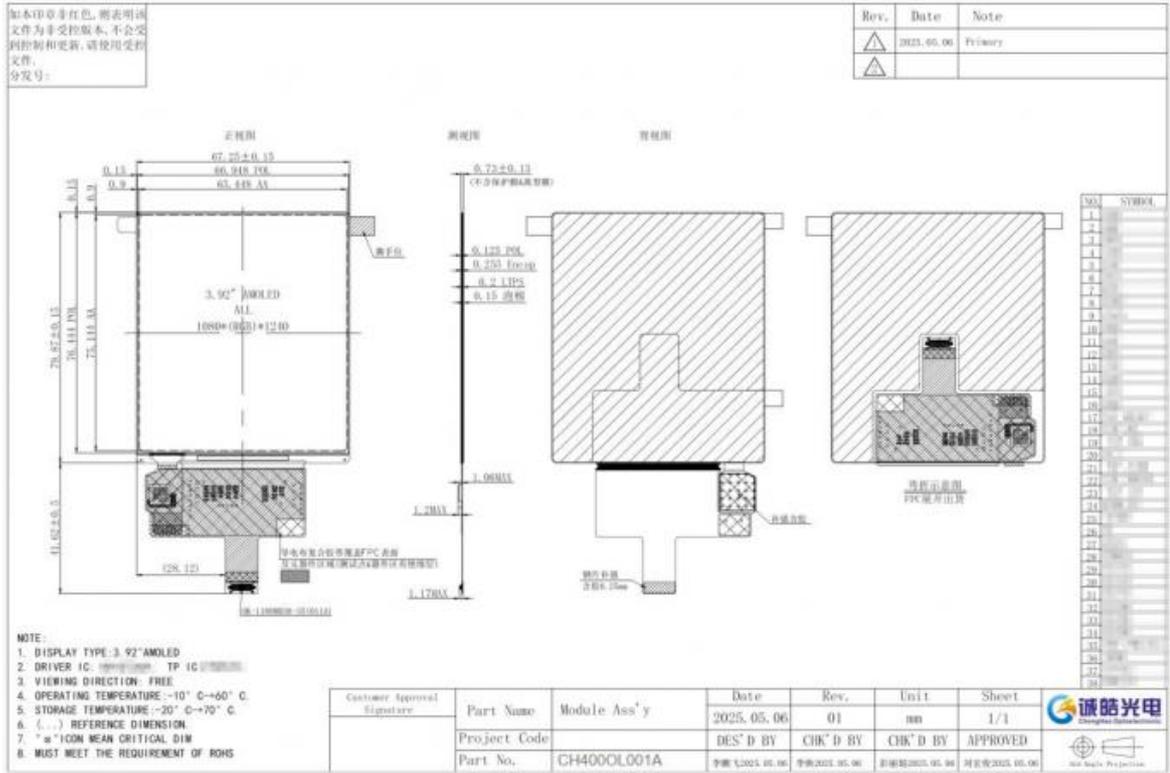
**Integrated Touch Solution:** Equipped with the FT\*\*\* capacitive touch IC, offering high-sensitivity multi-touch capabilities for an enhanced HMI experience.

**Superior Slim Design:** At just 1.2mm maximum thickness, this module supports the trend toward increasingly thin and lightweight product industrial designs.

**Flexible Connectivity:** Utilizes a standard MIPI interface to simplify motherboard integration and ensure low electromagnetic interference (EMI).

### Technical Parameters:

Operating Temperature	-10 ~ +60
Display Type	3.92" AMOLED
Viewing Direction	Free
Active Area Size	65.448*75.144 Mm
Screen Size	3.92 Inch
Screen Brightness	600 Cd/m2
Module Size	67*80*0.7 Mm
OLED Interface	MIPI
FPC Pin numbers	38
Storage Temperature	-20 ~ +70



### Customization:

Chenghao Optoelectronic proudly presents the OLED Display Module model CH400OL001A, a high-quality 3.92" AMOLED screen with a resolution of 1080\*1240 dots and a brightness of 600 Cd/m2. Although this module features a 3.92-inch display, we also offer customization services for oled display 2.4 inch sizes to meet various application needs.

Our OLED Screen products come with certifications including CE, RoHS, and FCC, ensuring compliance with international standards. We support flexible customization such as oled display 4 pin configurations and FPC pin numbers tailored to your project requirements.

With no minimum order quantity (NO MOQ), customers can order according to their demands. Packaging is handled with utmost care: small-sized products are packed using tray plus carton, while larger sizes utilize foam slot plus carton.

Additionally, we offer package design services customized to your specifications to guarantee the safe delivery of your OLED modules.

We maintain a strong supply ability of 300,000 pieces per month and ensure fast delivery within 3 to 5 working days. Payment terms are flexible, including TT or other agreed methods, to facilitate smooth transactions.

Choose Chenghao Optoelectronic for reliable and customizable OLED Screen solutions, perfectly suited for your innovative projects requiring oled display 2.4 inch or oled display 4 pin options.

### Support and Services:

As a leading supplier of touch displays, Chenghao Optoelectronics offers comprehensive AMOLED customization services with its extensive production base of over 100,000 square meters and more than 120 experienced engineers. We provide tailored modifications to meet your specific project needs, including:

- (1) FPC length and shape customization to accommodate special housing constraints;
- (2) Touchscreen customization (such as AG/AR/AF coating and cover glass thickness/shape);
- (3) Interface conversion and pin adjustments based on the module architecture;
- (4) Brightness adjustment for specific indoor and outdoor environments.

### FAQ:

Q: Can this 3.92" AMOLED screen be used for outdoor applications?

A: With a luminance of 600 nits and the high-contrast nature of AMOLED technology, it offers excellent readability in most environments. For direct sunlight usage, we can discuss additional optical bonding or anti-reflective coating options.

Q: Does the module support multi-touch?

A: Yes, it integrates the FT\*\*\* capacitive touch IC, which supports precise multi-touch interactions and gesture recognition.

Q: What is the minimum order quantity (MOQ) for customization?

A: We support both sample trials for R&D and high-volume production. Please contact our sales team with your specific design requirements for a detailed MOQ assessment.



**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