



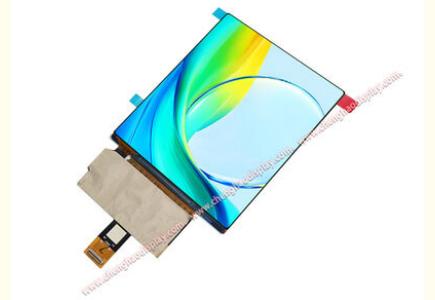
High Resolution 3.92" AMOLED Touchscreen Module for Handheld Medical Devices

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

- FPC Pin Numbers: 38
- Operating Temperature: -10 ~ +60
- Module Size: 67*80*0.7 Mm
- OLED Interface: MIPI
- Viewing Direction: Free
- Display Type: 3.92" AMOLED
- Active Area Size: 65.448*75.144 Mm
- Screen Size: 3.92 Inch
- Highlight: 3.92 inch AMOLED touchscreen module, medical device OLED display module, high resolution AMOLED touchscreen



More Images





Product Description

Product Description:

The CH400OL001A is a professional-grade 3.92 inch AMOLED touchscreen module specifically designed to meet the rigorous imaging requirements of modern handheld medical devices and high-end industrial instruments. With a native resolution of 1080x1240, this display offers an exceptional pixel density that ensures crystal-clear visualization of complex data and high-resolution medical imagery.



At the core of its interactive capability is the FT*** touch IC, which provides precise capacitive touch control, essential for critical diagnostic equipment. The module utilizes Active Matrix OLED technology, delivering deep blacks and a high contrast ratio that traditional LCDs cannot match. Engineers will appreciate the space-saving display solution provided by its ultra-thin profile—measuring only 1.2mm in maximum thickness—allowing for more compact and ergonomic device designs.

The integration of a MIPI interface ensures high-speed data throughput while maintaining the low power consumption necessary for portable, battery-operated devices. Furthermore, the free viewing angle characteristic of AMOLED technology ensures that critical information remains legible from any position, enhancing usability in fast-paced clinical environments. Manufactured under strict quality protocols, the module is fully RoHS compliant and operates reliably within a temperature range of -10°C to +60°C.



Features:

Vivid 1080x1240 Resolution: Delivers sharp, high-definition visuals with vibrant colors, ideal for precision-driven medical and industrial applications.

Advanced Capacitive Touch: Integrated FT*** IC supports sensitive and accurate multi-touch interaction even in demanding environments.

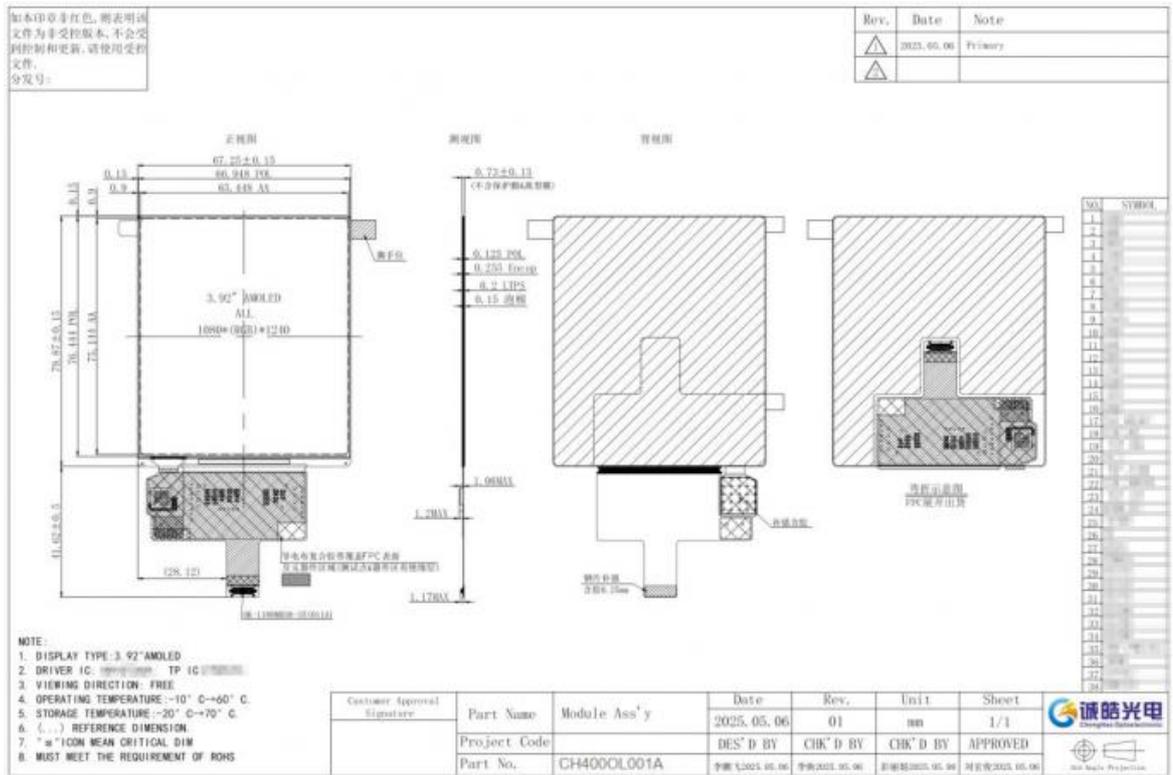
Ultra-Thin Form Factor: A maximum thickness of just 1.2mm makes it one of the most compact 4 inch AMOLED display modules available for slim hardware integration.

Superior Viewing Direction: The Free Viewing Angle ensures consistent color and brightness, regardless of the observer's position.

Technical Parameters:

Screen Brightness	600 Cd/m ²
Module Size	67*80*0.7 Mm
Active Area Size	65.448*75.144 Mm
Storage Temperature	-20 ~ +70
Display Type	3.92" AMOLED
OLED Interface	MIPI
Operating Temperature	-10 ~ +60

Viewing Direction	Free
Resolution	1080*1240 Dots
Screen Size	3.92 Inch



Customization:

Based on Chenghao Optoelectronic's expansive manufacturing capabilities (101,500 m² total area), we offer deep customization for the CH4000L001A to align with your specific OEM/ODM requirements:

FPC & Connector Customization: We can modify the Flexible Printed Circuit (FPC) shape and length to match your internal structural layout.

Cover Glass Enhancement: Options for specialized coatings such as Anti-Fingerprint (AF), Anti-Reflective (AR), or increased glass hardness for medical-grade durability.

Interface Bridging: While natively MIPI, our engineering team can assist with adapter solutions for specific controller boards.

Integrated Assemblies: We provide full-unit assembly services, including bonding the AMOLED to custom bezels or housings.

Support and Services:

As a reputable manufacturer with over 125 dedicated engineers, Chenghao Optoelectronic ensures long-term reliability and professional service:

Class 100/1000 Clean Room Production: Ensuring the highest yield and minimal contamination for sensitive AMOLED components.

Extensive Production Capacity: With a monthly output of 10KK-13KK pieces, we guarantee stable supply for large-scale industrial rollouts.

Technical Consultation: Direct access to R&D personnel for assistance with MIPI protocol initialization and touch sensitivity tuning.

ISO & RoHS Quality Control: All products undergo rigorous testing in our specialized display laboratories to ensure international compliance.

FAQ:

Q: Is this AMOLED module suitable for battery-powered handheld devices?

A: Yes. The MIPI interface and the self-emissive nature of AMOLED technology are optimized for low power consumption, extending battery life in portable equipment.

Q: Does the touch screen work with medical gloves?

A: The FT* touch IC can be tuned during the customization process to support various glove types, ensuring reliable operation in clinical settings.**

Q: What is the benefit of the 1080x1240 resolution on a 4-inch screen?

A: This provides a very high PPI (Pixels Per Inch), allowing for the display of fine text and detailed graphs which are often critical in medical diagnostics.



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