



MIPI 4 Lane 3.92 Inch AMOLED Display Panel With Free Viewing Angle For Industrial Monitor

Our Product Introduction

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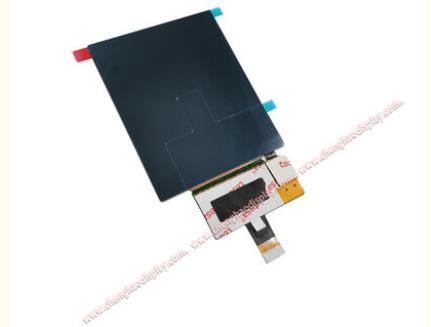
Basic Information

- 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
- Module Size: 67*80*0.7 Mm
- Active Area Size: 65.448*75.144 Mm
- Operating Temperature: -10 ~ +60
- Viewing Direction: Free
- Screen Brightness: 600 Cd/m2
- Storage Temperature: -20 ~ +70
- Display Type: 3.92" AMOLED
- Highlight: **MIPI 4 lane AMOLED display panel, 3.92 inch industrial OLED display, free viewing angle OLED module**



More Images





Product Description

Product Description:

The CH400OL001A is a high-performance 3.92-inch AMOLED display panel designed to provide superior visual clarity and reliable performance for high-end precision electronic equipment. Featuring a native 1080x1240 high-resolution active-matrix OLED screen, this module provides an exceptional pixel density that ensures sharp rendering of complex technical data and vibrant color reproduction .

Designed for seamless integration into modern hardware architectures, the module utilizes a MIPI 4-lane interface, supporting high-speed data throughput while maintaining the low power consumption and low EMI (Electromagnetic Interference) profiles required for sensitive electronic environments . The inclusion of the FT*** touch IC ensures a responsive capacitive touch experience, allowing for intuitive human-machine interaction in professional settings.



(4" OLED - Front)

One of the standout technical advantages of this AMOLED module is its Free Viewing Angle capability, which guarantees consistent color accuracy and brightness from all perspectives, a critical requirement for wall-mounted or multi-angle industrial monitoring systems. Furthermore, the module boasts an ultra-thin design with a maximum thickness of only 1.2mm, providing engineers with a significant space-saving display solution for compact housing. Built to meet international standards, the CH400OL001A is fully RoHS compliant and operates stably within a temperature range of -10°C to +60°C, ensuring long-term reliability for commercial and industrial-grade applications.



(4" OLED - Back)

Features:

MIPI 4-Lane High-Speed Interface: Enables efficient communication and high-bandwidth video data transmission for smooth graphical performance .

Superior AMOLED Image Quality: The 1080x1240 resolution combined with self-emissive technology offers deep blacks and unmatched contrast for professional use.

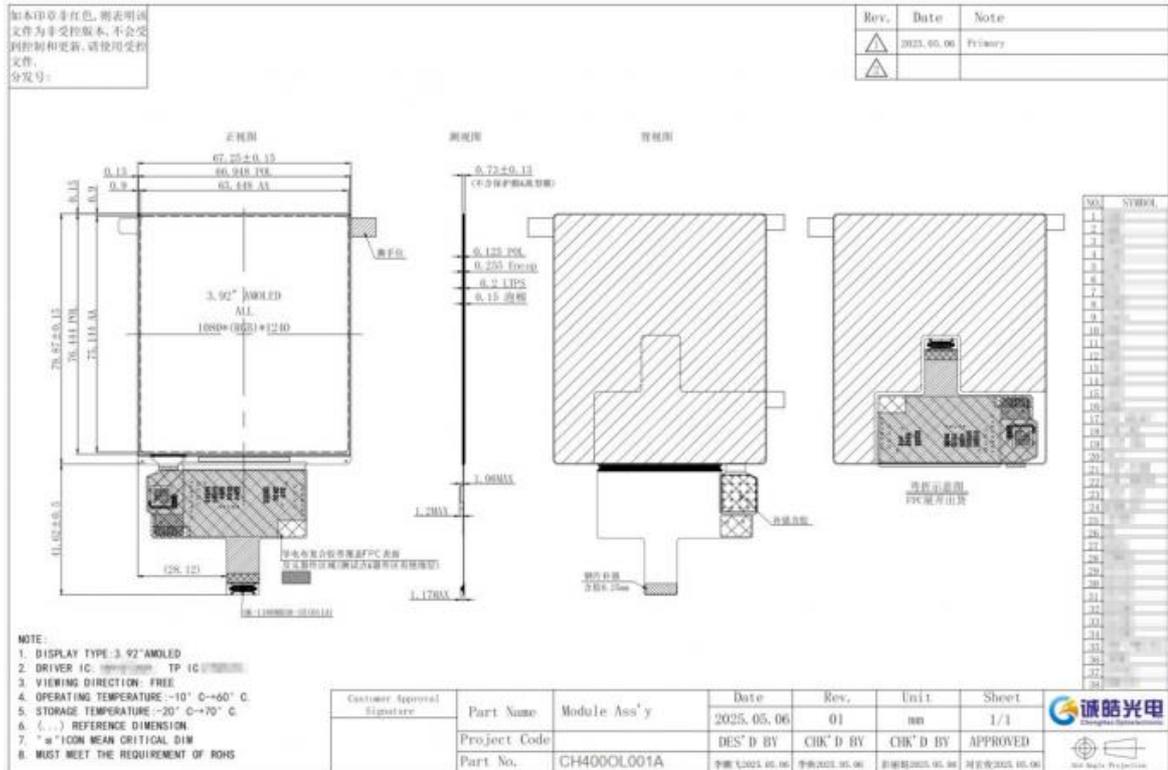
Integrated Multi-Touch Capability: Equipped with a high-precision FT*** capacitive touch IC for reliable user interface control .

Compact and Lightweight Profile: With a maximum thickness of **1.2mm**, this module is ideal for slim, portable industrial handhelds.

Technical Parameters:

Screen Size	3.92 Inch
Resolution	1080*1240 Dots
FPC Pin Numbers	38
Module Size	67*80*0.7 Mm

Viewing Direction	Free
OLED Interface	MIPI
Operating Temperature	-10 ~ +60
Display Type	3.92" AMOLED
Storage Temperature	-20 ~ +70
Screen Brightness	600 Cd/m2



Customization:

As a specialized Small LCD Touch Screen Supplier with a total factory area of 101,500 m², Chenghao Optoelectronic offers extensive customization services tailored to specific industrial requirements :

Custom FPC Design: We can modify the shape, length, and pinout of the Flexible Printed Circuit (FPC) to match your unique hardware layout .

Cover Lens Modification: Options for custom glass thickness, chemical strengthening, and specialized surface treatments like Anti-Reflective (AR) or Anti-Glare (AG).

Optical Bonding Services: Utilizing OCR/OCA technology to bond the AMOLED panel to the touch sensor and cover glass for enhanced durability and visibility.

Technical Optimization: Fine-tuning the display parameters and touch sensitivity to meet specific industrial operation environments.

Support and Services:

Chenghao Optoelectronic supports global B2B clients through high-capacity, automated production bases:

Mass Production Stability: Monthly capacity of 10KK-13KK pieces ensures long-term, stable supply for large industrial projects.

Advanced Manufacturing Environment: Production is conducted in Class 100 and Class 1000 clean rooms to ensure zero-defect quality for AMOLED components.

Professional R&D Support: Our team of 125 engineers provides direct assistance for MIPI initialization, hardware debugging, and protocol alignment.

Global Quality Standards: Each batch of CH400OL001A undergoes rigorous testing to comply with ISO and RoHS environmental directives.

FAQ:

Q: Why should I choose a MIPI interface for my industrial monitor?

A: The **MIPI interface** on the CH400OL001A supports high data rates with very low power consumption and low EMI, which is critical for complex industrial electronics and portable monitors .

Q: Does the "Free Viewing Angle" mean there is no color shift?

A: Precisely. Unlike traditional LCDs, this AMOLED module maintains consistent color and contrast from virtually any angle, ensuring data accuracy for operators.

Q: Can the touch sensitivity be adjusted for professional use?

A: Yes, the **FT*** touch IC** can be programmed to optimize sensitivity based on your specific application and cover glass thickness.



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