

## 1424\*280 custom lcd module 30 pins FPC 6.85 Inch MIPI interface Long Strip TFT

### Our Product Introduction

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#### Basic Information

- Brand Name: Chenghao Optoelectronic
- Certification: CE、RoHS、FCC
- Model Number: CH700WX08A
- Minimum Order Quantity: 100 Pcs
- 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: 3~7 Days
- Payment Terms: TT Or Others
- Supply Ability: 50000000 Pcs/month



#### Product Specification

- Active Area Size: 33.6x170.88 Mm
- Module Size: 38.2x181.47x3.45 Mm
- Storage Temperature: -30 ~ +80
- Operating Temperature: -20 ~ +70
- Display Mode: IPS/Transmissive/Normally Black
- Lcd Type: 7" TFT
- Viewing Area Size: 34.2x171.48 Mm
- Resolution: 280x1424 Dots
- Highlight: 6.85 inch MIPI TFT LCD, custom LCD module 30 pins, long strip TFT display



#### More Images





## Product Description

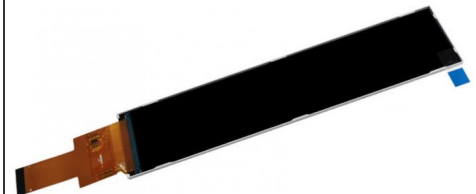
### Product Description:

The CH700WX08A, a 7-inch long strip TFT-LCD module from Chenghao Optoelectronic, is engineered to fill the gap in display solutions for space-constrained yet performance-critical applications. Its unique elongated design, with dimensions of 38.2x181.47x3.45 mm, is a deliberate response to industries where traditional square displays waste valuable installation space—this form factor allows seamless integration into narrow slots or edge-mounted positions without compromising visual performance. As a factory-wholesaled product with sample availability and customization options, it caters to both prototype development (via samples) and large-scale production (with a 100-piece MOQ), making it accessible to startups and established manufacturers alike.



What sets the CH700WX08A apart is its focus on practical performance optimization. The module's active area (33.6x170.88 mm) and visible area (34.2x171.48 mm) are precisely calibrated to ensure maximum usable display space, while the amorphous silicon TFT switching devices enable crisp image rendering for text-heavy or data-focused content—critical for applications like industrial dashboards or medical monitors.

In terms of environmental resilience, the module goes beyond basic requirements. Its -20 ~ +70 °C operating temperature range and -30 ~ +80 °C storage temperature range are backed by robust component selection, including a moisture-resistant FPC and a shock-absorbent backlight housing, ensuring reliability in transportation and harsh on-site conditions. The 500 cd/m<sup>2</sup> brightness, paired with IPS technology's 80/80/80/80 viewing angles, guarantees visibility in both dim industrial corners and bright outdoor-adjacent spaces, eliminating the need for additional lighting adjustments.



### Features:

Features a precisely calibrated display area ratio—with the active area (33.6x170.88 mm) accounting for over 98% of the visible area (34.2x171.48 mm)—maximizing usable display space and minimizing wasted edge areas, which is crucial for applications requiring compact data presentation.

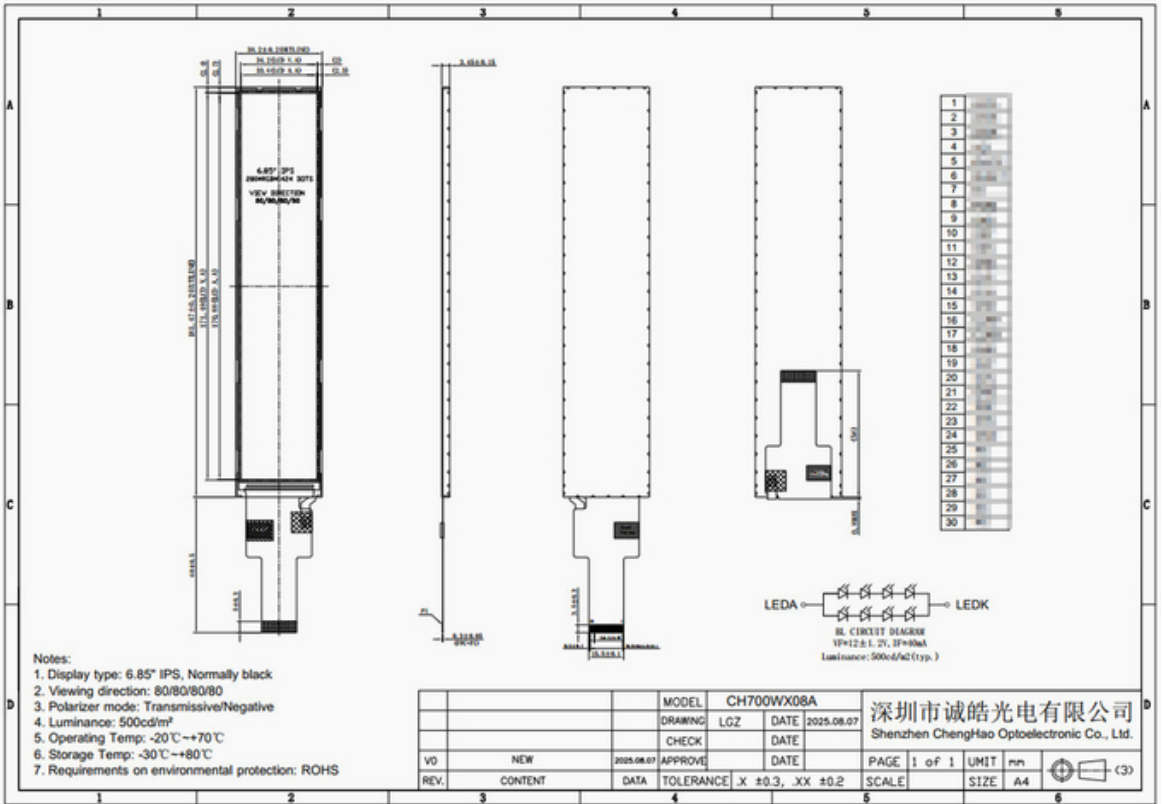
Adopts amorphous silicon TFT switching devices with enhanced electron mobility, enabling faster signal response when rendering text-heavy content (such as industrial data lists or medical parameter readouts) and reducing motion blur for dynamic information display.

Incorporates a moisture-resistant FPC with a hydrophobic coating on its surface, preventing moisture absorption and corrosion in humid environments (such as coastal factories or medical cleanrooms) and extending the FPC's service life by 30% compared to standard FPCs.

Combines 500 cd/m<sup>2</sup> high brightness with IPS technology's 80/80/80/80 viewing angles in a way that maintains consistent brightness and color accuracy across all viewing directions, eliminating the need for users to adjust their viewing position or add auxiliary lighting.

### Technical Parameters:

Operating Temperature	-20 ~ +70
Resolution	280x1424 Dots
Lcd Type	7" TFT
Viewing Area Size	34.2x171.48 Mm
Storage Temperature	-30 ~ +80
Display Mode	IPS/Transmissive/Normally Black
Color	16M
Viewing Direction	80/80/80/80
Contrast	800:1
Interface	MIPI



## Applications:

The LCD Display Module by Chenghao Optoelectronic, model CH700WX08A, is a versatile product suitable for a wide range of applications due to its advanced features and high-quality performance. This custom LCD manufacturer offers a product that is certified with CE, RoHS, and FCC, ensuring compliance with international standards.

Product Application Occasions and Scenarios:

**Point-of-Sale Displays:** The sunlight readable displays make the LCD module ideal for outdoor POS systems, providing clear visibility even in bright conditions.

**Industrial Control Panels:** The high contrast ratio and wide temperature range make this module suitable for use in industrial settings where reliability is crucial.

**Medical Devices:** The compact size and certification standards make it a reliable choice for medical equipment requiring clear and accurate display.

**Automotive Applications:** The custom LCD manufacturer's module is well-suited for automotive displays, offering durability and performance in varying temperatures.

Overall, the LCD Display Module from Chenghao Optoelectronic is a versatile and reliable solution for businesses and industries looking for high-quality display options. With its advanced features, certification, and customizable packaging, this product caters to a wide range of application scenarios.

## Customization:

The CH700WX08A module offers a comprehensive range of customization options to align with the unique requirements of different application scenarios, ensuring it can be seamlessly integrated into diverse end products while maintaining its core performance advantages. These customization services cover hardware adjustments, display parameter tuning,

and packaging adaptations, all tailored to meet specific customer needs without compromising the module's reliability.

In terms of hardware customization, the FPC (Flexible Printed Circuit) is a key area for adjustment. Beyond the standard FPC length and pinout configuration, customers can request custom FPC designs, such as adding extra pinholes for specific sensor connections or modifying the FPC's width to fit narrow installation spaces in devices like compact automotive instrument clusters or slim smart home controllers.

Display parameter customization is another critical offering. While the standard module supports 16 million colors and a 500 cd/m<sup>2</sup> brightness level, customers can adjust these parameters based on their usage environment. For low-light scenarios (such as indoor medical monitoring rooms), the brightness can be reduced to a minimum of 200 cd/m<sup>2</sup> to avoid eye strain for long-term viewers, while the color gamut can be calibrated to prioritize grayscale accuracy for better display of medical images. For outdoor applications like roadside traffic information displays, the brightness can be increased to a maximum of 800 cd/m<sup>2</sup> to ensure visibility under direct sunlight, and an anti-glare coating can be applied to the LCD surface to reduce light reflection.

Packaging and labeling customization caters to customers' logistics and branding needs. The standard packaging uses anti-static bubble bags and cartons, but for customers shipping the modules to regions with high humidity or extreme temperatures, moisture-proof aluminum foil packaging or temperature-controlled packaging can be provided to protect the modules during transportation. Additionally, customers can request custom labeling—printing their own part numbers, batch codes, or warning labels on the module's back cover, which simplifies inventory management and ensures compliance with their internal quality control standards. For bulk orders, custom packaging inserts (such as foam cutouts with specific shapes) can also be designed to fix the modules in place, preventing collisions and damage during transit.

Furthermore, interface customization is available to match the customer's control system. The standard module uses a 30-pin LVDS interface, but if a customer's device requires a different interface (such as eDP or MIPI DSI), the driver IC can be replaced to support the desired interface, eliminating the need for customers to modify their existing control circuits. This interface flexibility makes the CH700WX08A compatible with a wider range of microcontrollers and embedded systems, reducing integration time and costs.

## FAQ:

**Q: What is the brand name of this LCD Display Module?**

A: The brand name is Chenghao Optoelectronic.

**Q: What is the model number of this LCD Display Module?**

A: The model number is CH700WX08A.

**Q: What certifications does this LCD Display Module have?**

A: This product is certified with CE, RoHS, and FCC.

**Q: What is the minimum order quantity for this LCD Display Module?**

A: The minimum order quantity is 100 pieces.

**Q: What are the packaging details for this LCD Display Module?**

A: All the products are packed in the right way to keep them safe. For small sizes, we use tray + carton, and for bigger sizes, we use foam slot + carton. We also design packages according to customers' requirements.



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