

7 Inch Long-strip Small Lcd Display Module 280*1424 Dots 16M Color TFT Screen

Our Product Introduction

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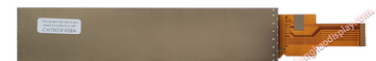
Basic Information

- 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

- Lcd Type: 7" TFT
- Storage Temperature: -30 ~ +80
- Interface: MIPI
- Viewing Area Size: 34.2x171.48 Mm
- Color: 16M
- Viewing Direction: 80/80/80/80
- Contrast: 800:1
- Screen Brightness: 500 Cd/m
- Highlight: 7 inch LCD display module, long-strip TFT screen, 280*1424 dots LCD module



More Images



Product Description

Product Description:

The CH700WX08A, a 7-inch long strip TFT LCD module developed by Chenghao Optoelectronic, emerges as a targeted solution for modern device designers seeking to balance space efficiency with high-performance display capabilities. Unlike generic displays that force compromises between size and functionality, this module's 38.2x181.47x3.45 mm elongated form factor is purpose-built to fit the narrow, edge-mounted spaces common in automotive, industrial, and smart retail devices—addressing a key pain point where traditional square modules waste valuable real estate. As a factory-wholesaled product with sample support and customization options, it bridges the gap between prototype testing (via accessible samples) and large-scale production (with a 100-piece MOQ), making it a versatile choice for both small-scale innovators and large manufacturing teams.

At the heart of the CH700WX08A's performance is its thoughtfully engineered component synergy. The module uses amorphous silicon TFT technology for its LCD panel,



a choice driven by the material's ability to deliver consistent pixel response across the entire 33.6x170.88 mm active area—critical for displaying linear data like production timelines or automotive speed graphs without edge-to-edge distortion. The backlight unit, often an afterthought in display design, is optimized here for both brightness and uniformity: its 500 cd/m² output is paired with a diffuser layer that eliminates uneven light spots, a feature that matters for applications like medical monitors where consistent illumination directly impacts data readability.



Environmental robustness is another defining trait of the CH700WX08A, tailored to the unpredictable conditions of real-world use. Its -20 ~ +70 °C operating temperature range isn't just a specification on paper—it's enabled by moisture-resistant FPC

(Flexible Printed Circuit) and a heat-dissipating backlight housing, which prevent component failure in humid factories or hot automotive cabins. The storage temperature range of -30 ~ +80 °C further ensures the module retains performance during long shipping or warehouse storage in extreme climates. IPS technology, paired with the 80/80/80/80 viewing angles, adds another layer of practicality: it allows users to view the display from non-optimal positions—such as a factory worker standing beside a machine or a car passenger glancing at the dashboard—without color shifting or brightness loss.



What truly sets the CH700WX08A apart is its focus on user-centric practicality. The clear delineation between its 34.2x171.48 mm visible area and 33.6x170.88 mm active area gives designers precise guidelines for bezel placement, reducing the risk of misalignment during assembly. Additionally, the module's compatibility with a range of control systems—thanks to its flexible interface options—means it can integrate with existing hardware without requiring costly redesigns. Whether used in a conveyor belt control panel, a smart shelf display, or a car's secondary instrument screen, the CH700WX08A delivers on the promise of a display that works with the device, not against it.

Features:

Employs a purpose - designed 7-inch long strip-form-factor (38.2x181.47x3.45 mm) that is specifically optimized for edge - mounted and narrow - space installations in automotive, industrial, and smart retail devices, effectively solving the space - wasting issue of traditional square displays.

Integrates an amorphous silicon TFT LCD panel that ensures consistent pixel response across the entire 33.6x170.88 mm active area, enabling distortion - free display of linear data such as production timelines and automotive speed graphs, which is crucial for data - intensive application scenarios.

Features a low - profile integrated touch panel that adds minimal thickness to the module, allowing it to fit into slim device enclosures while maintaining highly responsive touch feedback, meeting the design requirements of compact smart devices.

Equips a backlight unit with dual optimization for brightness and uniformity; the 500 cd/m² brightness combined with a dedicated diffuser layer eliminates uneven light spots, ensuring clear and consistent illumination—essential for applications like medical monitors where data readability relies on stable light.

Adopts moisture - resistant FPC and a heat - dissipating backlight housing, which together enable the module to operate stably within the -20 ~ +70 temperature range, preventing component failure in harsh environments such as humid factories and hot automotive cabins.

Boasts a wide storage temperature range of -30 ~ +80 , ensuring the module retains its original performance during long - distance transportation or long - term storage in extreme climate conditions, reducing storage and logistics risks for customers.

Combines IPS technology with 80/80/80/80 viewing angles, allowing users to view the display from non - optimal positions (e.g., factory workers beside machines, car passengers) without color shifting or brightness loss, enhancing usability in multi - user scenarios.

Provides clear delineation between the 34.2x171.48 mm visible area and 33.6x170.88 mm active area, offering precise guidelines for designers to plan bezel placement, minimizing assembly misalignment risks and improving production efficiency.

Supports compatibility with a variety of control systems through flexible interface options, enabling integration with existing customer hardware without the need for costly redesigns, reducing development and deployment costs.

Technical Parameters:

Viewing Area Size	34.2x171.48 Mm
Viewing Direction	80/80/80/80
Active Area Size	33.6x170.88 Mm
Display Mode	IPS/Transmissive/Normally Black
Color	16M
Operating Temperature	-20 ~ +70
Resolution	280x1424 Dots
Screen Brightness	500 Cd/m
Module Size	38.2x181.47x3.45 Mm
Contrast	800:1

- * Provides clear delineation between the 34.2x171.48 mm visible area and 33.6x170.88 mm active area, offering precise guidelines for designers to plan bezel placement, minimizing assembly misalignment risks and improving production efficiency.
- * Supports compatibility with a variety of control systems through flexible interface options, enabling integration with existing customer hardware without the need for costly redesigns, reducing development and deployment costs.

Support and Services:

Chenghao Optoelectronics provides comprehensive, dedicated support and services for the CH700WX08A 7-inch long-bar TFT LCD module, ensuring customers receive professional assistance throughout the entire process, from pre-purchase evaluation to post-delivery use. We also address individual customer needs based on the module's technical specifications and application scenarios.

Pre-purchase support focuses on helping customers verify the module's suitability for their specific project and assess whether it meets their visual performance requirements. Furthermore, each potential customer receives a dedicated technical consultant to assist with module integration and provide expert advice on interface compatibility, such as matching the module's LCD interface with the customer's control system.

Post-purchase technical support goes beyond basic troubleshooting. For display anomalies encountered by customers (such as uneven backlighting and delayed touch response), Chenghao Optoelectronics offers remote technical assistance, typically resolving issues within 48 hours without the need to return the module.

Long-term service guarantees include a commitment to active component supply. Because the CH700WX08A utilizes custom-sized FPC and IPS panel components, Chenghao Optoelectronics promises to maintain a 24-month inventory of critical spare parts (such as backlight LED chips and touch panel controllers) after the customer's last order. This ensures that customers can obtain replacement parts, even during extended production runs or after-sales repairs, to avoid production interruptions.

In addition, for customers seeking upgrades (such as upgrading from standard moisture-resistant to enhanced moisture-resistant), the company offers a module retrofit service. This service provides retrofit components (such as moisture-resistant FPCs) and a step-by-step retrofit guide, enabling existing modules to be upgraded without requiring a complete replacement.

Customer service communication prioritizes efficiency and convenience. The company offers 24-hour online support, where customers can submit service requests.

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 module 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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