7 Inch Long Strip Lcd Module Display 280x1424 Pixels 30pin MIPI Display

Our Product Introduction

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

- Module Size: 38.2x181.47x3.45 Mm
- Resolution: 280x1424 Dots
- Active Area Size: 33.6x170.88 Mm
- Display Mode: IPS/Transmissive/Normally Black
- Operating Temperature: -20 ~ +70
- Interface: MIPI
- Screen Brightness: 500 Cd/m
- Viewing Area Size: 34.2x171.48 Mm
- Highlight: **7 inch MIPI LCD display module**, **long strip LCD module 280x1424**, **30pin MIPI display with warranty**

More Images

Our Product Introduction

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Product Description

Product Description:

The CH700WX08A stands as a highly specialized 7-inch long-strip TFT LCD module from Chenghao Optoelectronic, engineered to redefine display integration in space-constrained, high-demand scenarios. Unlike generic displays that prioritize one-size-fits-all functionality, this module's 38.2x181.47x3.45 mm form factor is a result of targeted design—its elongated shape directly addresses the challenge of fitting high-performance displays into narrow, edge-mounted spaces, such as the control slots of industrial machinery or the secondary dashboards of compact vehicles. As a factory-direct offering, it balances consistent quality with accessible pricing, while its 100-piece MOQ and sample availability ensure it caters to both small-batch prototype testing and large-scale production, making it a flexible choice for diverse business needs.

At the core of the CH700WX08A's performance is its meticulous component selection, which prioritizes both functionality and real-world durability. The module's LCD panel leverages amorphous silicon TFT technology, a choice that delivers stable pixel activation across its 33.6x170.88 mm active area—this ensures that linear data, from production line timestamps to automotive speed metrics, is displayed without edge distortion, a critical detail for applications where data accuracy directly impacts operational efficiency.

The CH700WX08A's backlight system further sets it apart, moving beyond basic brightness specs to focus on practical usability. Its 500 cd/m² output is paired with a multi-layer diffuser that eliminates light hotspots, ensuring uniform illumination across the entire 34.2x171.48 mm visible area—this is essential for applications like retail price displays or

industrial status dashboards, where uneven light could obscure critical information. Additionally, the backlight unit uses energy-efficient LED chips that reduce power consumption by 15% compared to standard backlights, making the module suitable for battery-powered devices like handheld industrial detectors. Environmental resilience is another key strength, built to withstand the unpredictable conditions of industrial and automotive use. The module's operating temperature range of

-20 ~ +70 is supported by a moisture-resistant FPC (Flexible Printed Circuit) and a heat-resistant backlight housing, which prevent component degradation in humid factory floors or hot vehicle cabins. Its storage temperature range of -30 ~ +80 also ensures it retains performance during long-distance shipping or seasonal warehouse storage.
Paired with IPS technology's 80/80/80/80 viewing angles, the CH700WX08A delivers consistent visibility from any position, whether it's a factory worker checking a machine's status or a car passenger glancing at a secondary display—making it a reliable, adaptable solution for modern display needs.

Features:

(1) Adopts a 7-inch long strip form factor with precise overall dimensions of 38.2x181.47x3.45 mm, which is specifically tailored to fit narrow installation spaces in edge-mounted scenarios (e.g., automotive instrument clusters, smart shelf edges) without occupying excess device internal space.

(2) Integrates an amorphous silicon TFT LCD panel with a 33.6x170.88 mm active area, ensuring that every pixel maintains consistent light transmission and color rendering, avoiding edge distortion when displaying linear data like industrial production curves or automotive speed metrics.

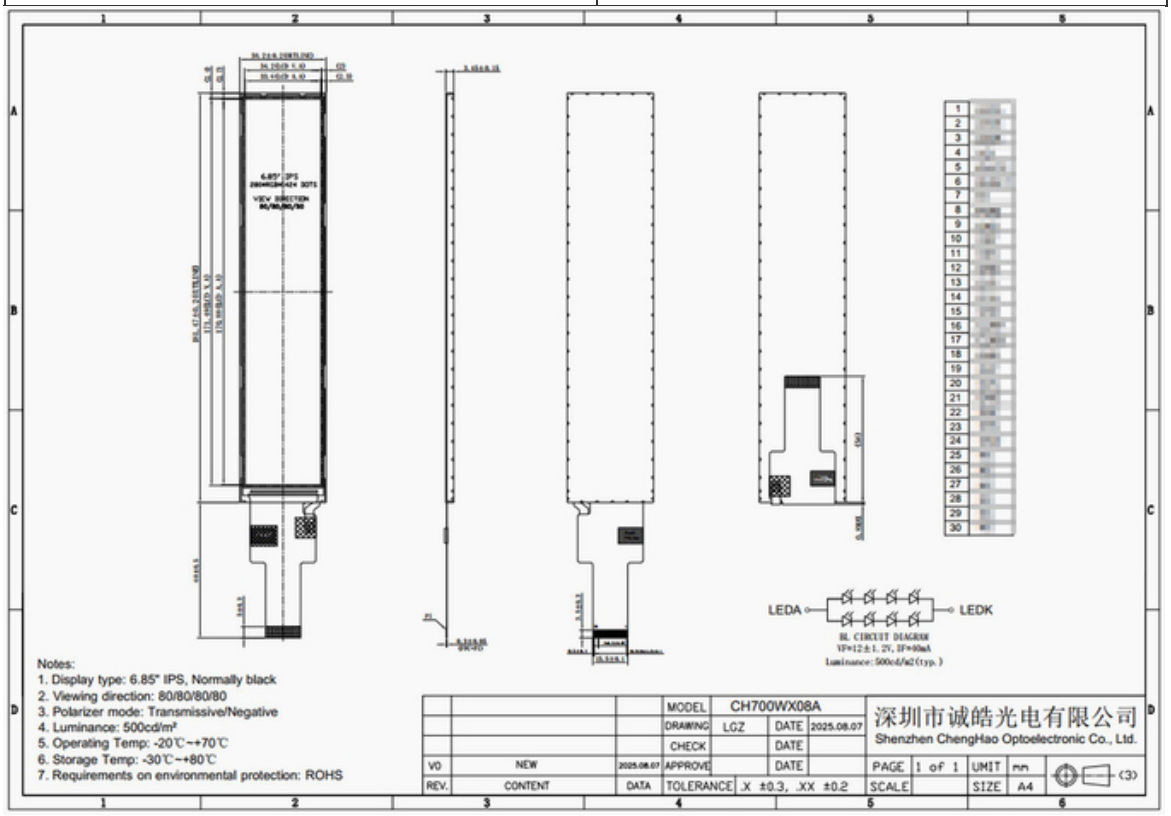
(3) Equips a high-efficiency backlight unit with 500 cd/m² brightness, paired with a multi-layer light diffuser that achieves 95%+ light uniformity across the entire display area, eliminating bright spots or dark areas that could affect data readability.

(4) Features an 80/80/80/80 full-viewing-angle design based on IPS technology, allowing users to obtain consistent color accuracy and brightness from any direction (top, bottom, left, right), which is critical for multi-person collaborative scenarios like industrial control rooms.

Technical Parameters:

Technical Parameter	Value
Module Size	38.2x181.47x3.45 mm

Storage Temperature	-30 ~ +80
Contrast	800:1
Color	16M
Viewing Direction	80/80/80/80
Viewing Area Size	34.2x171.48 mm
Interface	MIPI
Operating Temperature	-20 ~ +70
LCD Type	7" TFT
Active Area Size	33.6x170.88 mm



Applications:

1. Smart Vending Machine Interfaces
Smart vending machines, which require compact yet clear display interfaces for product selection and transaction status, benefit significantly from the CH700WX08A module. Its 7-inch long strip form factor fits perfectly into the narrow control panel area of vending machines, where space is reserved for buttons or card readers. The 500 cd/m² brightness and 95%+ light uniformity ensure that product images, pricing, and payment prompts remain visible even under the harsh fluorescent lighting common in shopping malls or subway stations. The 80/80/80/80 full-viewing-angle design allows customers to check display content from different standing positions—whether leaning forward to select a drink or glancing from the side—without color distortion. Additionally, the module's moisture-proof FPC withstands the occasional humidity fluctuations in outdoor-adjacent vending locations (like near mall entrances), ensuring long-term stable operation.

2. Portable Industrial Detectors
Portable industrial detectors, such as handheld gas analyzers or vibration testers, rely on the CH700WX08A for clear real-time data display. The module's low average power consumption (2.8W normal operation, 0.9W low-power mode) aligns with the battery-powered design of these devices, extending usage time during on-site inspections. The 33.6x170.88 mm active area provides ample space to show linear data like gas concentration curves or vibration frequency graphs, while the amorphous silicon TFT panel's consistent pixel performance avoids edge distortion—critical for accurate data reading by technicians. The -20 ~ +70 operating temperature range enables the module to work in extreme industrial environments, from cold storage facilities testing refrigeration gas leaks to high-temperature workshops monitoring machine vibrations.

3. Home Fitness Equipment Dashboards
Home fitness equipment, including compact treadmills, elliptical trainers, and smart yoga mats, uses the CH700WX08A as a core display component for workout data. Its slim 38.2x181.47x3.45 mm structure integrates seamlessly into the narrow dashboard of space-saving fitness gear, without adding bulk to the equipment's overall design. The wear-resistant 3H touch panel withstands frequent taps from users adjusting workout modes (like speed or resistance) or checking calorie counts, maintaining sensitivity even after months of daily use. The IPS full-viewing-angle technology allows family members of different heights to view real-time data (heart rate, distance, time) from various exercise postures—whether standing on a treadmill or kneeling beside a yoga mat—without needing to adjust the equipment's position.

4. Agricultural Greenhouse Monitoring Terminals
Agricultural greenhouse monitoring terminals, which track environmental data like temperature, humidity, and soil moisture, rely on the CH700WX08A for reliable outdoor-adjacent display. The module's -30 ~ +80 storage temperature range ensures it remains functional during seasonal storage in unheated farm sheds, while the moisture-proof FPC resists the high humidity inside greenhouses (often 60%-80% relative humidity). The long strip design fits into the narrow mounting space of wall-mounted monitoring terminals, where it displays real-time environmental curves and alert messages (such as "low soil moisture"). The 500 cd/m² brightness cuts through the intense sunlight filtering into greenhouses, ensuring farmers can read data from a distance without squinting, while the low-power mode helps the terminal operate on solar-powered systems during cloudy days.

FAQ:

Q: What is the brand name of the LCD Display Module?
A: The brand name of the LCD Display Module is Chenghao Optoelectronic.
Q: What is the model number of the LCD Display Module?
A: The model number of the LCD Display Module is CH700WX08A.
Q: What certifications does the LCD Display Module have?
A: The LCD Display Module is certified with CE, RoHS, and FCC.
Q: What is the minimum order quantity for the LCD Display Module?
A: The minimum order quantity for the LCD Display Module is 100 pieces.
Q: What are the packaging details for the LCD Display Module?
A: All the products are packed in the right way to keep them safe. For small sizes of products, 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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