

Sunlight Readable Display 7 Inch Full Viewing Direction Touch Lcd Module

Our Product Introduction

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Basic Information

- Brand Name: Chenghao Optoelectronic
- Certification: CE、RoHS、FCC
- Model Number: CH700WS17F-CTG
- 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

- FPC Pin Number: 40 Pins (Supports Custom Design Of Shape/structure, Etc.)
- Operating Temperature: -20 - +70 (-30 - +80 Optional)
- Active Area Size: 154.21x85.92 Mm
- Module Size: 190x121x8.35 Mm
- Lcd Interface: RGB (HDMI/SPI/MCU/RGB/LVDS/MIPI... (Optional))
- Storage Temperature: -30 - +80 (-40 - +90 Optional)
- Display Mode: IPS/Transmissive/Normally Black
- Number Of Dots: 1024x600 Dots
- Highlight: 7 inch sunlight readable LCD module, full viewing direction touch display, touch LCD module with sunlight visibility



More Images





Product Description

Product Description:

The CH700WS17F-CTG is an advanced 7-inch IPS TFT-LCD display module designed to provide customized solutions for a variety of customer projects. This module excels not only in its brightness of up to 1000 cd/m², but also in its high resolution of 1024x600 pixels, ensuring clear visuals and vibrant colors suitable for diverse applications.

A key feature of the CH700WS17F-CTG is its wide 80-degree viewing angle, thanks to IPS technology. This characteristic allows multiple users to clearly view the screen from different angles without distortion, enhancing collaborative environments requiring multi-angle input.

The display module features a highly responsive capacitive touch panel powered by the GT911 IC. This touch capability enables users to interact with the display smoothly and accurately. Its 1.8mm glass lens and 0.55mm ITO glass layer provide durability while maintaining a slim profile.



Customization is at the heart of the CH700WS17F-CTG. Customers can define their FPC (Flexible Printed Circuit) designs to meet specific needs, including shape, structure, and pin configuration. Furthermore, the LCD interface supports multiple protocols such as SPI, MCU, and RGB, ensuring compatibility with a wide range of existing systems.



Backlight brightness can also be customized, with options ranging from 300 cd/m² to 2800 cd/m² to adapt to various lighting conditions and usage scenarios. This flexibility is particularly beneficial for industries where visibility is critical, such as automotive displays and outdoor self-service kiosks.

The CH700WS17F-CTG is designed to operate within a temperature range of -20 to +70 degrees Celsius, ensuring reliable performance in a variety of environments.

In summary, the CH700WS17F-CTG effectively combines high-resolution visuals, wide viewing angles, responsive touch functionality, and extensive customization options. These features make it ideal for manufacturers looking to create tailored display solutions.

Features:

Resolution

With a resolution of 1024x600 pixels, the CH700WS17F-CTG delivers detailed and sharp images, enhancing visual clarity for users. This quality is essential for applications requiring intricate graphics or text, such as industrial interfaces or consumer electronics, ensuring that information is presented clearly and attractively.

LCD Interface Type

This module supports an RGB LCD interface, which allows for high-speed data transmission and compatibility with numerous embedded systems. The RGB connection enhances the display's responsiveness and performance, making it an ideal choice for real-time applications where quick updates are necessary, such as digital signage and gaming devices.

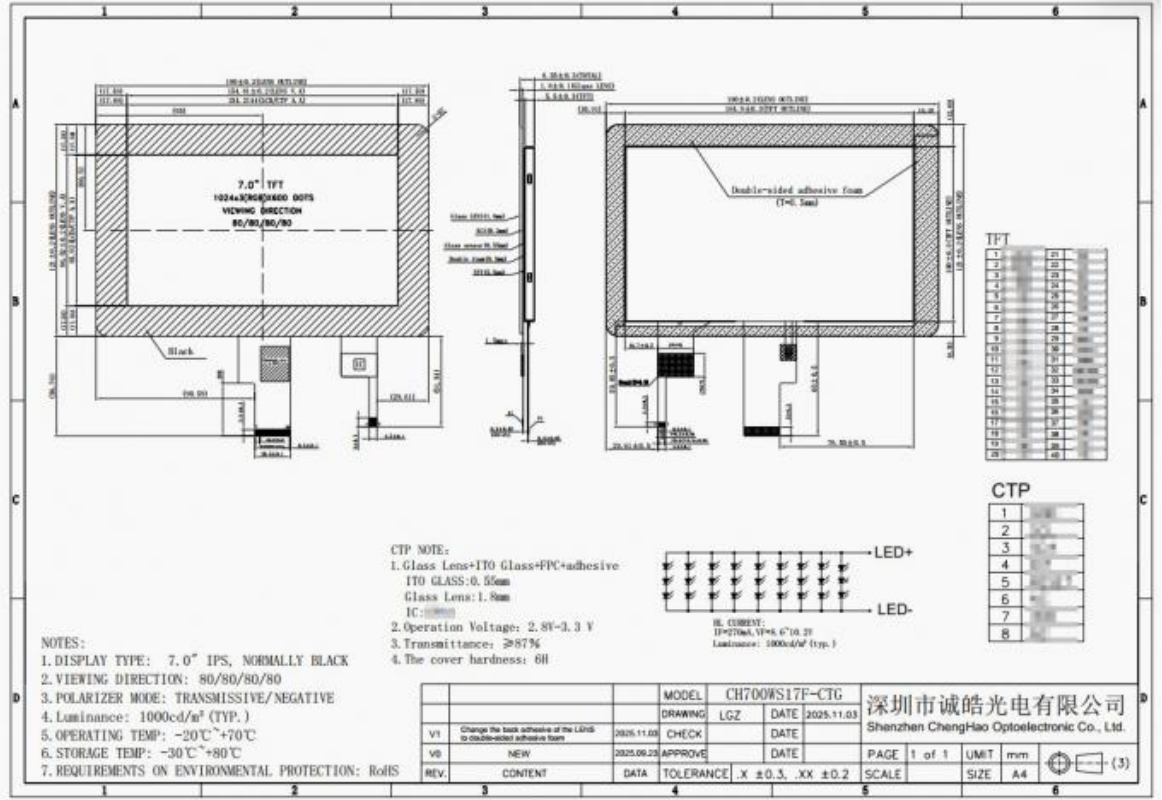
Temperature Operation Range

The CH700WS17F-CTG is designed to operate within a temperature range of -20 to +70 degrees Celsius, making it suitable for wide temperature environments. This feature ensures reliable performance in both indoor and outdoor settings, catering to applications in extreme conditions, such as automotive displays or outdoor kiosks, where temperature fluctuations can be significant.

Technical Parameters:

Active Area Size	154.21 x 85.92 mm
Storage Temperature	-30 to +80 (Optional: -40 to +90)
LCD Interface	RGB (Optional: HDMI/SPI/MCU/RGB/LVDS/MIPI...)
Backlight Brightness	1000 cd/m ² (Optional: 300~1500 cd/m ²)
Number of Dots	1024 x 600 Dots

FPC Pin Number	40 Pins (Supports Custom Design of Shape/Structure)
Contrast	800:1
Backlight Type	White LED
Module Size	190 x 121 x 8.35 mm
Viewing Area Size	154.81 x 86.52 mm



Applications:

The CH700WS17F-CTG display module, with its advanced features and customizable options, finds applications across various sectors. Here are detailed examples of how this display module can be effectively used in different fields:

Industrial Control

In industrial automation, the CH700WS17F-CTG serves as an integral component in control panels and Human-Machine Interfaces (HMI)s. The high brightness of 1000 cd/m² ensures visibility even in brightly lit factory environments. Additionally, its robust temperature range allows reliable operation in challenging conditions, making it suitable for monitoring equipment performance, controlling processes, and displaying real-time data effectively.

Smart Home Systems

The CH700WS17F-CTG is an excellent fit for smart home control panels that manage various home automation systems, such as lighting, security, and climate control. Its capacitive touch functionality offers users an intuitive interface for managing connected devices. With its attractive design and customizable features, it can blend seamlessly into modern home interiors, enhancing user experience while providing essential control and monitoring capabilities.

Medical Equipment

In healthcare, the CH700WS17F-CTG can be embedded in medical devices for patient monitoring and diagnostic equipment. The clear resolution and wide viewing angles enable healthcare professionals to read data quickly from various positions. Its durable construction ensures that it can withstand frequent cleaning and disinfection processes, essential in maintaining hygiene standards in clinical environments.

Internet of Things (IoT) Devices

The CH700WS17F-CTG is suitable for use in various IoT applications, such as smart meters and environmental sensors. Its ability to operate within a broad temperature range makes it ideal for outdoor installations. It can display essential information about energy consumption, environmental data, or operational status, allowing users to interact with real-time analytics through a user-friendly touch interface.

Vehicle-Mounted Applications

This display module is well-suited for vehicle-mounted applications, including dashboards and navigation systems. The high brightness and wide viewing angles ensure that the information is easy to read in varying light conditions, whether in direct sunlight or nighttime driving. With options for touchscreen interfaces, users can easily interact with navigation maps, entertainment options, and vehicle diagnostics, enhancing the overall driving experience. In summary, the CH700WS17F-CTG is versatile and adaptable, making it an ideal choice for various applications in industrial control, smart home systems, medical devices, IoT equipment, and vehicle-mounted solutions.

FAQ:

Q1: What is the brand and model number of this LCD Display Module?

A1: The LCD Display Module is manufactured by Chenghao Optoelectronic, and the model number is CH700WS17F-CTG.

Q2: What certifications does this LCD Display Module have?

A2: This product is certified with CE, RoHS, and FCC, ensuring it meets international quality and safety standards.

Q3: What is the minimum order quantity for this LCD Display Module?

A3: The minimum order quantity for the CH700WS17F-CTG model is 100 pieces.

Q4: How is the product packaged to ensure safety during shipping?

A4: All products are carefully packed to ensure safety. For smaller sizes, we use tray plus carton packaging, and for larger sizes, foam slot plus carton. We can also design packages according to customers' specific requirements.

Q5: What is the typical delivery time and payment terms for ordering this LCD Display Module?

A5: The typical delivery time is between 3 to 7 days. Payment terms include TT (Telegraphic Transfer) or other agreed methods.

Q6: What is the supply capacity of this LCD Display Module?

A6: Chenghao Optoelectronic has a supply ability of up to 50,000,000 pieces per month for the CH700WS17F-CTG model.



Shenzhen ChengHao Optoelectronic Co., Ltd.



+86 755-27806536



add@chenghaolcm.com



chenghaolcd.com

7th floor, building C5, Hengfeng Industrial City, Hangcheng street, Bao'an District, Shenzhen