



7 Inch IPS TFT LCD Display Module 1024x600 MIPI Capacitive Touch for Industrial HMI

Basic Information

- Place of Origin: China
- Brand Name: chenghao optoelectronic
- Certification: RoHS & CE & FCC
- Model Number: CH700WS22A-CT
- Minimum Order Quantity: 100 pcs
- Price: Contact us for quotation
- Packaging Details: Standard Export Package
- Delivery Time: 7-15 work days
- Payment Terms: T/T
- Supply Ability: 300,000 pieces/month

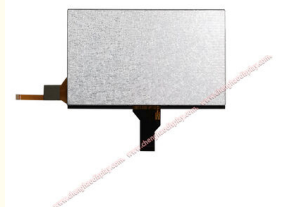


Product Specification

- Module No: CH700WS22A-CT
- Display Mode: IPS / Transmissive / Normally Black
- Screen Size: 7.0 Inch
- Resolution: 1024 X (RGB) X 600 Dots
- Viewing Direction: 80/80/80/80 (All View)
- Screen Brightness: 350 Cd/m2
- Module Interface: MIPI
- Operating Temperature: -20 ~ +70°C
- Storage Temperature: -30 ~ +80°C
- Module Size: 164.9 X 100.0 Mm (TFT Outline)
- Active Area Size: 154.21 X 85.92 Mm
- Touch Type: Capacitive Touch (I2C)
- Highlight: **7 inch IPS TFT LCD display ,
MIPI capacitive touchscreen module,
industrial HMI LCD display**



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Product Description

This 7 inch IPS TFT LCD display module combines a 1024 x (RGB) x 600 resolution panel with a capacitive touch panel controlled through an I2C interface. It adopts an IPS transmissive normally black display mode with an 80/80/80/80 viewing direction, 16.7 million colors, and a typical brightness of 350 cd/m2. The MIPI interface and wide operating temperature from -20 to +70 degrees Celsius make it suitable for industrial HMI panels, POS terminals, instrumentation, and kiosk applications. Storage temperature ranges from -30 to +80 degrees Celsius. The module integrates a glass lens and sensor with high transmittance, and supports custom cover glass and AG surface treatment for customer projects.

Product Features

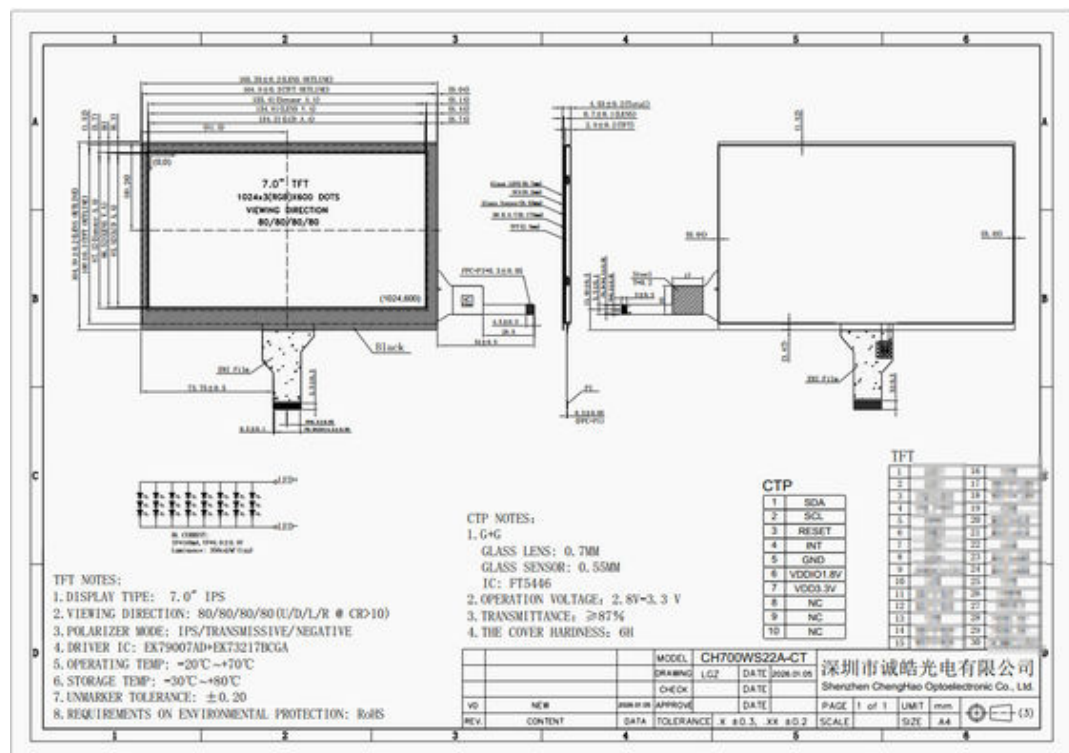
Capacitive touch with I2C interface provides responsive multi-touch control for interactive terminals.

IPS full viewing direction of 80/80/80/80 keeps images clear from every angle.

Wide operating temperature from -20 to +70 degrees Celsius supports reliable operation in industrial environments.

MIPI interface with 1024 x 600 resolution delivers sharp text and graphics for HMI dashboards and kiosks.

Product Drawing



Detailed Specifications

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Customized Introduction

Chenghao provides customized display module services for TFT LCD modules, mono LCD displays, color OLED modules, and mono OLED modules. Customization covers FPC layout and pin configuration, interface selection including SPI, MCU, RGB, MIPI, LVDS, EDP and HDMI, brightness levels from standard 200 to 300 cd/m2 up to high brightness above 500 cd/m2, capacitive touch, resistive touch, or no touch options, anti glare surface treatment, and glass cover design with customized thickness, shape, color, and silk printing. This 7 inch touch display can be adapted with custom cover glass and AG treatment, and similar customization is available for customer projects with short lead time and stable mass production quality.

Application Cases

Industrial HMI panels: The MIPI interface and capacitive touch support responsive operator control on factory equipment.

POS and kiosk terminals: The wide viewing direction and clear 1024 x 600 image keep the interface easy to read in retail environments.

Instrumentation displays: Wide temperature operation and durable cover glass make the module suitable for measurement and control equipment.

PRODUCT FAQ FAQ

Q1: What interface does this module support?

It supports a MIPI interface with a capacitive touch panel controlled by I2C.

Q2: Can the touch function be customized?

Yes, capacitive touch, resistive touch, and no touch options are available for other models.

Q3: What is the screen brightness?

It provides a typical brightness of 350 cd/m2, and higher brightness can be customized.

Q4: What is the operating temperature range?

It operates from -20 to +70 degrees Celsius and can be stored from -30 to +80 degrees Celsius.



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