



5 Inch IPS TFT LCD Display Module 1024x600 LVDS 500 Nits for Industrial HMI

Our Product Introduction

for more products please visit us on chenghaolcd.com

Basic Information

- Place of Origin: China
- Brand Name: chenghao optoelectronic
- Certification: RoHS & CE & FCC
- Model Number: CH500WS01A
- 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

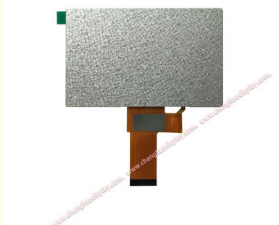


Product Specification

- Module No: CH500WS01A
- Display Mode: IPS / Transmissive / Normally Black
- Screen Size: 5.0 Inch
- Resolution: 1024 X (RGB) X 600 Dots
- Viewing Direction: 85/85/85/85 (All View)
- Screen Brightness: 500 Cd/m2
- Module Interface: LVDS
- FPC Pin Numbers: 40 Pins
- Operating Temperature: -20 ~ +70°C
- Storage Temperature: -30 ~ +80°C
- Module Size: 120.7 X 75.8 Mm (Outline)
- Active Area Size: 108.03 X 64.8 Mm



More Images



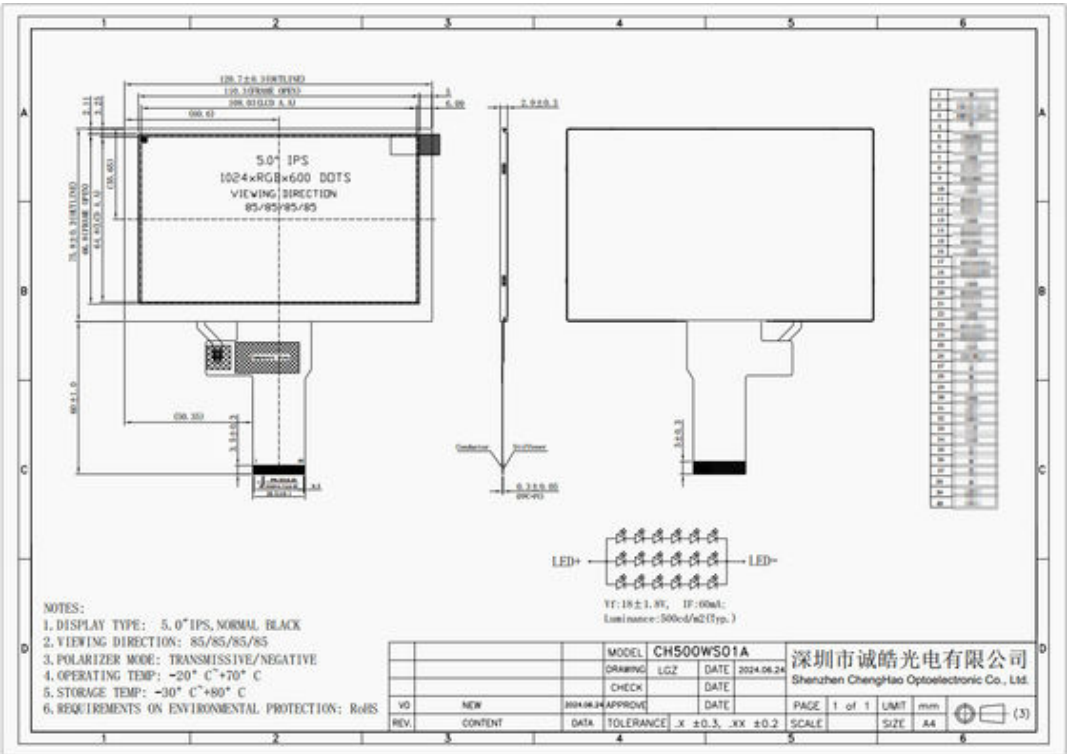
Product Description

The CH500WS01A is a 5.0 inch IPS TFT LCD display module with a 1024 x (RGB) x 600 resolution and a 40-pin LVDS interface. It delivers a typical brightness of 500 cd/m2, 16.7 million colors, and an 85/85/85/85 viewing direction for consistent readability from multiple positions. The panel uses an IPS transmissive normally black mode with a 120.7 x 75.8 mm outline and a 108.03 x 64.8 mm active area. Operating temperature ranges from -20 to +70 degrees Celsius, while storage temperature ranges from -30 to +80 degrees Celsius. The module has no touch panel and is designed for industrial HMI panels, instrumentation, control terminals, and embedded display systems that require a stable LVDS interface and long-term supply.

Product Features

- 1024 x (RGB) x 600 resolution provides sharp text, graphs, and operator interface content.
- 500 cd/m2 typical brightness supports clear viewing in most indoor and controlled industrial environments.
- IPS technology with an 85/85/85/85 viewing direction maintains image consistency from every side.
- A 40-pin LVDS interface simplifies integration with industrial control boards and display controller platforms.

Product Drawing



Detailed Specifications

Item	Value
Module Name	5.0 Inch IPS TFT LCD Module
Module No	CH500WS01A

Item	Value
Display Mode	IPS / Transmissive / Normally Black
Screen Size	5.0 Inch
Resolution	1024 x (RGB) x 600 Dots
Viewing Direction	85/85/85/85 (All View)
Screen Brightness	500 cd/m2
Module Interface	LVDS
FPC Pin numbers	40 Pins
Operating Temperature	-20 ~ +70°C
Storage Temperature	-30 ~ +80°C
Module Size	120.7 x 75.8 mm (Outline)
Active Area Size	108.03 x 64.8 mm
Touch Type	No Touch

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, brightness tuning, touch integration, anti-glare surface treatment, and cover glass design.

- FPC customization includes outline, length, pin count, and connector layout.
- Interface options include LVDS, SPI, MCU, RGB, MIPI, EDP, and HDMI.
- Brightness can be tuned for standard indoor use or higher ambient-light environments.
- Capacitive touch, resistive touch, and no-touch configurations are available.
- AG surface treatment can reduce reflections in bright installation areas.
- Cover glass can be customized by thickness, shape, color, and silk printing.

Application Cases

- Industrial HMI Panels:** The 1024 x 600 resolution and LVDS interface support clear operator dashboards, machine status screens, and control terminals.
- Test and Measurement Equipment:** Wide viewing angles and stable color output help technicians read waveforms, values, and menus from different positions.
- Kiosk and Control Terminals:** The compact 5.0 inch outline and 40-pin interface simplify integration into space-constrained embedded systems.
- Building Control Equipment:** A 500 cd/m2 display and wide temperature range support dependable operation in monitored indoor environments.

PRODUCT FAQ

FAQ

Q1: What interface does this display module use?

It uses an LVDS interface through a 40-pin FPC connection.

Q2: Can the brightness be customized?

Yes, the backlight can be tuned for higher brightness when the installation environment requires it.

Q3: Does this module include a touch panel?

This version is no touch, while capacitive and resistive touch options can be provided for suitable projects.

Q4: What is the operating temperature range?

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



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