



## 15.6" Large Display Screen 30pins -20 +70 Wide-temp LVDS Display Module

### Our Product Introduction

for more products please visit us on [chenghaolcd.com](http://chenghaolcd.com)

#### Basic Information

- Brand Name: Chenghao Optoelectronic
- Certification: CE, ISO9001, Rose, SGS
- Model Number: CH156FH02A
- 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: T/T, AliPay, PayPal
- Supply Ability: 50000000 Pcs/month



#### Product Specification

- Active Area Size: 344\*193 Mm
- Screen Brightness: 300 Cd/m<sup>2</sup>
- Module Size: 370\*217\*9.3 Mm
- Lcd Interface: LVDS
- Resolution: 1920\*1080 Dots
- Viewing Direction: 12:00
- Display Mode: TN/Transmissive/Normally White
- Module Type: 15.6" TFT
- Highlight: 15.6 inch LVDS display module, wide-temperature TFT LCD screen, 30pin large display screen



#### More Images

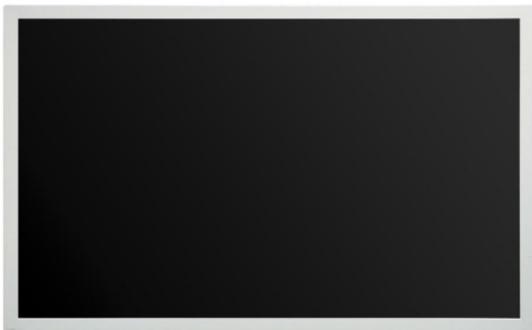


## Product Description

### Product Description:

The CH156FH02A is a 15.6-inch TFT LCD module engineered for clarity, reliability, and adaptability in demanding visual environments. Featuring a native Full HD resolution of 1920×1080, it renders sharp, detailed imagery with support for 16.7 million colors, ensuring vibrant and accurate color reproduction. Built on a TN (Twisted Nematic) transmissive architecture with a normally white mode, the panel delivers fast pixel response and consistent luminance across its 344×193 mm active area. A standard brightness of 300 cd/m<sup>2</sup> and a contrast ratio of 500:1 provide clear visibility under typical indoor ambient lighting.

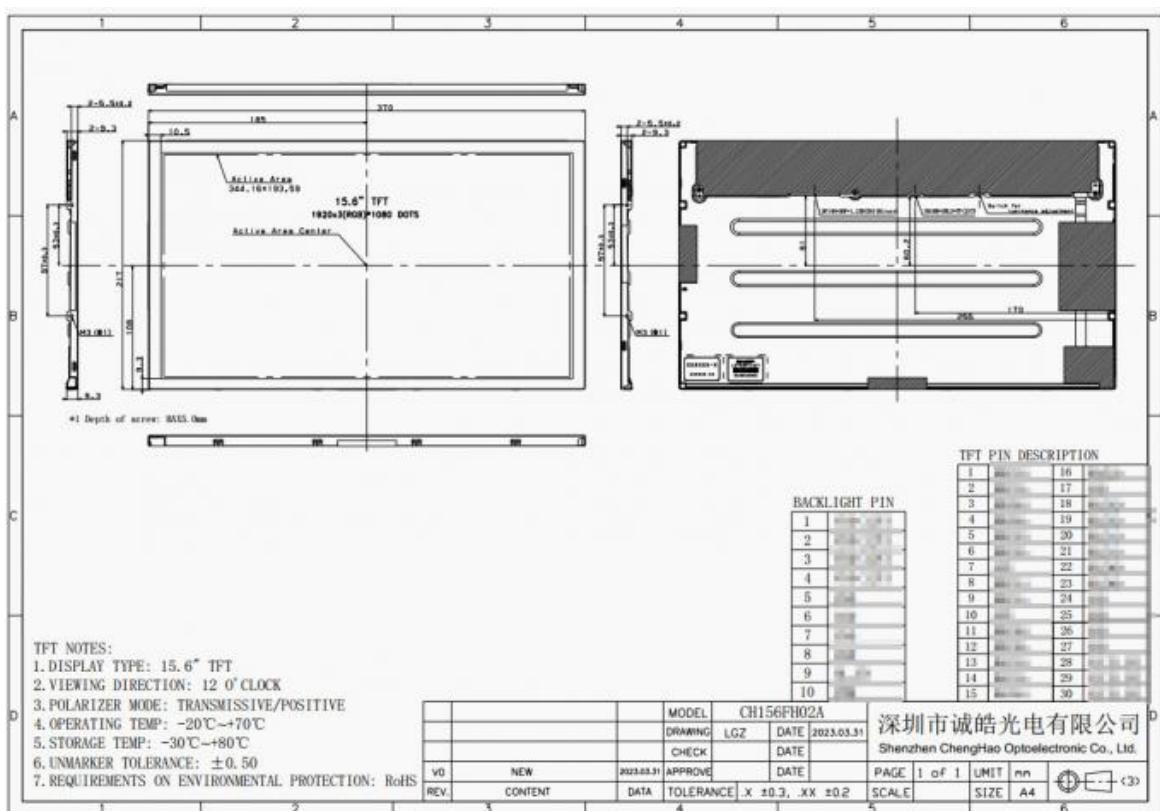
This module utilizes an LVDS interface via a 30-pin flexible printed circuit, enabling efficient high-speed data transmission with low electromagnetic emission—ideal for noise-sensitive installations. While delivered without integrated touch functionality, the design accommodates optional capacitive or resistive touch overlays during production, allowing seamless adaptation to interactive use cases. The CH156FH02A operates reliably across a broad temperature range of -20°C to +70°C and can be stored in conditions from -30°C to +80°C, demonstrating resilience in fluctuating thermal environments.



As part of Chenghao Optoelectronic's modular customization strategy, the CH156FH02A serves as a foundational platform that can be enhanced with tailored backlighting, extended temperature tolerance, anti-glare coatings, EMI shielding, and bespoke mechanical or optical configurations. Its balanced blend of performance, ruggedness, and flexibility makes it well-suited for control systems, diagnostic equipment, automation interfaces, and other professional-grade applications where visual fidelity and long-term stability are critical.

### Technical Parameters:

Display Mode	TN/Transmissive/Normally White
Storage Temperature	-30 ~ +80
Operating Temperature	-20 ~ +70
Module Size	370*217*9.3 Mm
Resolution	1920*1080 Dots
LCD Interface	LVDS
Module Type	15.6" TFT
Screen Brightness	300 Cd/m <sup>2</sup>
Viewing Direction	12:00
Active Area Size	344*193 Mm



## Features:

### True Full HD 1920x1080 Resolution for Precision Imaging

The CH156FH02A delivers native 1920×1080 pixel resolution, enabling high pixel density across its 15.6-inch active area. This level of definition ensures fine detail reproduction and sharp text rendering—essential for applications requiring accurate visual data interpretation, such as monitoring interfaces or technical visualization systems where clarity directly impacts operational efficiency.

### Robust LVDS Interface for Noise-Resilient Signal Integrity

Leveraging a 30-pin LVDS (Low-Voltage Differential Signaling) interface, the module transmits video data with minimal latency and excellent immunity to electrical interference. This differential signaling method reduces crosstalk and power consumption while maintaining stable image quality over extended cable lengths, making it ideal for integration into electromagnetically complex or industrial-grade setups.

### Wide-Temperature Operation from -20°C to +70°C for Environmental Reliability

Engineered to function continuously across a -20°C to +70°C operating range, the CH156FH02A is well-suited for non-climate-controlled environments. This wide-temp capability ensures consistent startup, image stability, and long-term performance in settings such as transportation interiors, field-deployed instrumentation, or enclosed enclosures subject to solar heating or seasonal temperature swings.

## Support and Services:

Chenghao Optoelectronic provides comprehensive technical support and value-added services throughout the lifecycle of the CH156FH02A TFT LCD module. From initial evaluation to mass deployment, customers benefit from dedicated engineering assistance, including detailed datasheets, timing diagrams, and reference schematics tailored to the module's LVDS interface and 30-pin FPC configuration. The company offers sample units for system integration testing, along with application notes that address signal integrity, power sequencing, and backlight driving requirements.

For projects requiring adaptation beyond standard specifications, Chenghao's customization team collaborates closely with clients to implement modifications—such as interface conversion, brightness enhancement, or wide-temperature optimization—while maintaining rigorous quality control aligned with industrial standards. Post-design support includes failure analysis, design-in guidance, and firmware-level recommendations to ensure optimal display performance under real-world operating conditions.

Additionally, the company maintains long-term product availability planning and end-of-life (EOL) notifications to help customers manage supply chain continuity. Global logistics coordination, responsive after-sales service, and compliance documentation (including RoHS and REACH) further streamline integration into professional and industrial systems where reliability, traceability, and regulatory adherence are non-negotiable.

## FAQ:

### **Q1: What is the brand and model number of this TFT LCD Display?**

A1: The TFT LCD Display is manufactured by Chenghao Optoelectronic, and the model number is CH156FH02A.

### **Q2: Where is this TFT LCD Display produced?**

A2: This product is made in Shenzhen, China.

**Q3: What certifications does the CH156FH02A TFT LCD Display have?**

A3: The display holds several certifications including CE, ISO9001, RoHS, and SGS.

**Q4: What is the minimum order quantity and supply capacity for this product?**

A4: The minimum order quantity is 100 pieces, and the supply ability is up to 50,000,000 pieces per month.

**Q5: How are the TFT LCD Displays packaged and what is the typical delivery time?**

A5: All products are carefully packed to ensure safety. Small-sized products are packed using tray plus carton, while bigger sizes use foam slot plus carton. Customized packaging options are also available based on customer requirements. The typical delivery time is between 3 to 7 days.

**Q6: What payment methods are accepted for purchasing the CH156FH02A TFT LCD Display?**

A6: Payment can be made via T/T, AliPay, or PayPal.



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