



Lcd Factory 3.5 Inch Custom Small Tft Lcd Display With Capacitive Touch

Our Product Introduction

Basic Information

- Place of Origin: ShenZhen, China
- Brand Name: Chenghao/Oem
- Certification: ROHS ISO9001 CE
- Model Number: CH350HV37A-CT
- Minimum Order Quantity: 100 pcs
- Price: /
- 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: 7-15 working days
- Payment Terms: T/T
- Supply Ability: 300Kpcs/month



Product Specification

- MODEL NO.: CH350HV37A-CT
- Module Type: 3.5 Inch
- Operating Temperature: -20~+70 °C
- Storage Temperature: -30~+80 °C
- Back Light: 6 White LED Inparallel
- Weight: TBD G
- Display Mode: TN/Transmissive/Normally White
- Number Of Dots: 320*480
- Interface: TFT: SPI MCU SPI+RGB CTP I2C
- Luminance: 300nits
- Highlight: Custom Small Tft Lcd Display,
3.5 Inch Tft Lcd Display,
Capacitive Touch Tft Lcd Display



More Images



Product Description

INTRODUCTION of CH350HV37A-CTC

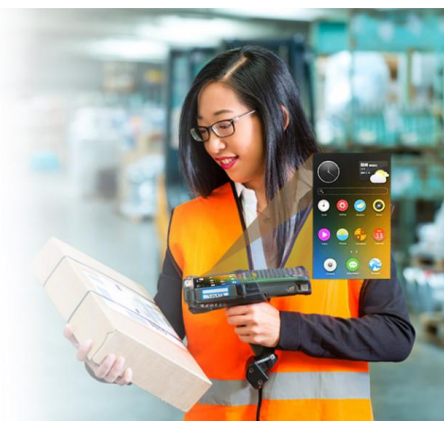


Chenghao Optoelectronic CH350HV37A-CTC is a 3.5 inch small touch tft lcd display module, which includes a tft lcd panel, a touch panel, a driver IC, an FPC and a backlight component.

This tft lcd panel has an active area of 3.5 inches diagonally and can display color images with 262k colors and 320x480 resolution. The display panel adopts TN/Transmissive/Normally black display mode, and the best viewing angle of the screen is 6 O'clock. The driver IC of the display is mounted on the glass and communicates with other components through FPC, supporting SPI, MCU and RGB interfaces.

This backlight component uses 6 pcs white LED lamp beads in parallel as the output light source of the display, and its luminous intensity can reach 280 cd/m2 luminance, which is enough for the display to display clearly in indoor environments.

In order to respond to the customer's project's needs for human-computer interaction, we designed and installed a capacitive touch glass cover for the tft lcd display based on the information provided by the customer. Compared with cheap resistive touch panels, capacitive touch panels have more sensitive response speed and touch experience. At the same time, since the glass cover is strictly designed and customized according to the shape of the display module installation position of the customer's project, the display module can be perfectly integrated with the customer's project equipment.



The FPC of this display has 50 pins, and its shape and structure are also strictly designed and customized according to the customer's requirements. The benefit of redesigning the shape and structure of the FPC according to the actual installation space of the equipment is that the connection line arrangement between the display module and the installation equipment will be more reasonable and neat.

In addition, the color LCD module also supports a wide temperature environment, can operate smoothly in an environment of -20 ~ +70°C, has RoHS and CE certification, and supports a one-year warranty.

Module No	CH350HV37A-CT	--
Module Type	3.5"TFT + CTP	--
Display Mode	TN/Transmissive/Nomally White	--
Resolution	320*480	Dots
Viewing Direction	6	O'clock
Color	262/65	K
Touch Type	Capacitive	--
Touch Interface	I2C	--
Operating Temperature	-20 ~ +70	°C
Storage Temperature	-30 ~ +80	°C
Luminance	350	cd/m2
Manufacturer	Chenghao Optoelectronic	--

NOTES:

1. DISPLAY TYPE: 3.5" TFT
2. VIEWING DIRECTION: 6:00
3. LCD DRIVE IC:
4. POLARIZER MODE: TRANSMISSIVE/POSITIVE
5. OPERATING TEMP: -20° C~+70° C
6. STORAGE TEMP: -50° C~+80° C
7. UNMARKER TOLERANCE: ±0.20
8. REQUIREMENTS ON ENVIRONMENTAL PROTECTION: RoHS

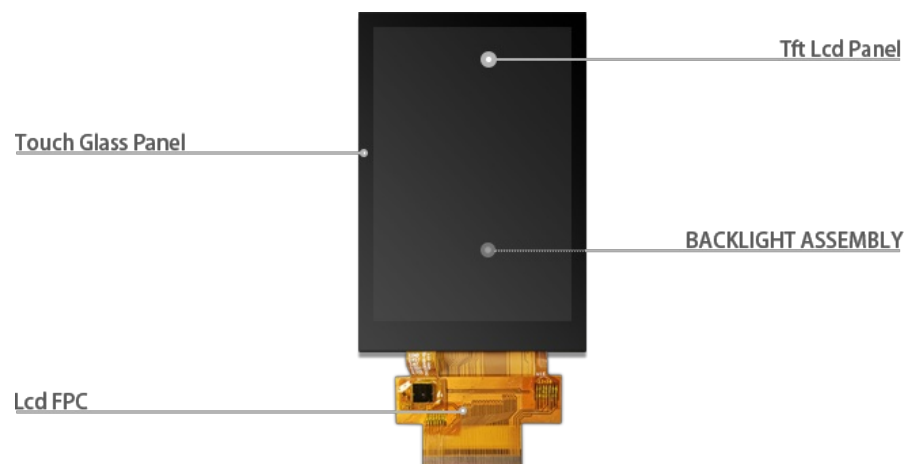
CP NOTE:

1. PET+ITO Glass+PET+adhesive
2. PET GLASS: 0.7mm
3. PET LENS: 0.25mm
4. The cover hardness: 3H

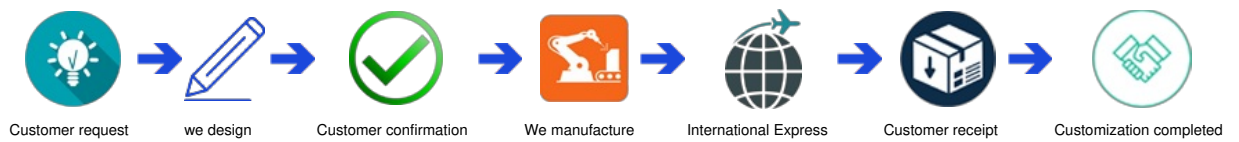
B1 CIRCUIT DIAGRAM

VP=3.2V IF=120mA
Luminescence: 200cd/m² (Typ.)

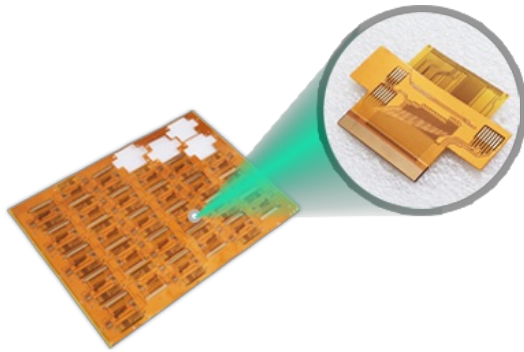
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LCD Module customization process



As a professional LCD manufacturer, Chenghao Optoelectronic is well aware of the importance of personalized customization of LCD screens to corporate customers. In view of this, we provide customers with one-stop customization services for LCDs, including but not limited to customization of flexible circuit boards, adjustment of backlight brightness, customization of interfaces, installation of touch panels, design of glass cover plates, anti-glare design of screens, etc. The following is an introduction to some common customization projects of LCDs. If you have more customization requirements, you are always welcome to communicate and negotiate with us!



(1) Customization of FPC

An FPC whose appearance and structure are compatible with the internal space structure of the device to be installed can not only make better use of the small internal space of the device, but also largely avoid the situation where the FPC is damaged due to the incompatibility between the FPC appearance and the internal structure of the device when installing the LCD panel. For this reason, we provide customers with FPC customization services for LCD screens. The customization options include but are not limited to the appearance, structure, number of pins, etc. of the FPC

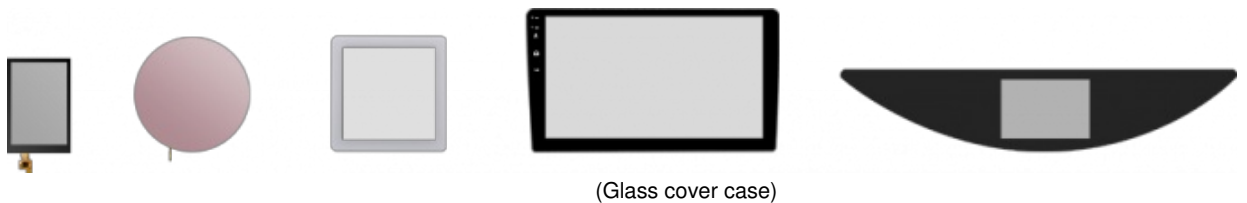
(2) Customization of backlight brightness

Screen brightness is a very important factor affecting the readability of LCD screens in different light environments, especially for transmissive and self-luminous TFT LCDs. Chenghao Optoelectronic can design and adjust the brightness of LCD modules according to the actual requirements of customer projects, so that it can have high readability in the usage scenarios required by customers while minimizing customer costs.



(3) Installing the touch panel

The touch panel of the LCD module is an important component that enables the human-computer interaction function of the device. Its importance is self-evident. Chenghao Optoelectronic can provide customers with optional capacitive touch panel (CTP) or resistive touch panel (RTP).



OUR OTHER TFT LCD MODULE

As we all know, a new display module solution, from design customization to proofing and testing to final product finalization and mass production, this whole process will increase high costs and super long development time. If your team is new to displays, this process will add more uncertainty. In order to shorten the customer's development time and reduce the customer's project development costs as much as possible, we will give priority to matching customers with the tft lcd module models that are closest to their project requirements in our own mass-produced tft lcd module model library. These modules either have ready-made samples or can be directly generated using ready-made molds. Samples can be shipped in a short time.

The following list lists some of the tft lcd module models that our company has already mass-produced. If you can't find a module model that is close to your project requirements, you can directly contact our 24-hour online customer service and tell us your needs. Our team will give you a satisfactory answer!

Size	Module No	Resolution	Display Mode	Luminance	Touch Type	Operating Temperature
1.1"	CH110T001A	96*96 dots	IPS/Transmissive/Normally Black	200 cd/m2	No TP	-20 - +70°C
1.14"	CH114QV01A	135*240 dots	IPS/Transmissive/Normally Black	400 cd/m2	No TP	-20 - +70°C
1.3"	CH130QV05A	240*240 dots	IPS/Transmissive/Normally Black	300 cd/m2	No TP	-20 - +70°C
1.32"	CH132HV01A	360*360 dots	IPS/Transmissive/Normally Black	300 cd/m2	No TP	-20 - +70°C
1.44"	CH144T006A	128*128 dots	TN/Transmissive/Normally Black	400 cd/m2	No TP	-20 - +70°C
1.44"	CH144QQ21A	128*128 dots	TN/Transmissive/Normally Black	1000 cd/m2	No TP	-20 - +70°C
1.44"	CH144QQ17A-CT	128*128 dots	TN/Transmissive/Normally Black	300 cd/m2	CTP	-20 - +70°C
1.47"	CH147QV01A	172*320 Dots	IPS/Transmissive/Normally Black	500 cd/m2	No TP	-20 - +70°C
1.47"	CH147QV03A-CT	172*320 Dots	IPS/Transmissive/Normally Black	400 cd/m2	CTP	-20 - +70°C
1.5"	CH015B4001A	480*240 Dots	TN/Transmissive/Normally Black	300 cd/m2	No TP	-20 - +70°C
1.77"	CH180QQ21A	128*160 Dots	TN/Transmissive/Normally Black	500 cd/m2	No TP	-20 - +70°C
1.77"	CH180T001B-T	128*160 Dots	TN/Transmissive/Normally Black	300 cd/m2	RTP	-20 - +70°C
1.8"	CH180HV02A	360*360 Dots	IPS/Transmissive/Normally Black	400 cd/m2	No TP	-20 - +70°C
1.9"	CH190QV01A	170*320 Dots	IPS/Transmissive/Normally Black	400 cd/m2	No TP	-20 - +70°C
1.9"	CH190QV01A-CT	170*320 Dots	IPS/Transmissive/Normally Black	300 cd/m2	CTP	-20 - +70°C
2.0"	CH200QV18B	240*320 Dots	IPS/Transmissive/Normally Black	1000 cd/m2	No TP	-20 - +70°C
2.0"	CH200QV18B-CT	240*320 Dots	IPS/Transmissive/Normally Black	1000 cd/m2	CTP	-20 - +70°C
2.1"	CH210WV03A	480*480 Dots	IPS/Transmissive/Normally Black	500 cd/m2	No TP	-20 - +70°C
2.1"	CH210WV01A-CT	480*480 Dots	IPS/Transmissive/Normally Black	300 cd/m2	CTP	-20 - +70°C
2.2"	CH200QV16A-CT	240*320 Dots	TN/Transmissive/Normally Black	300 cd/m2	CTP	-20 - +70°C
2.31"	CH231QV07A	320*240 Dots	TN/Transmissive/Normally Black	450 cd/m2	No TP	-20 - +70°C
2.4"	CH240QV64A	240*320 Dots	IPS/Transmissive/Normally Black	300 cd/m2	No TP	-20 - +70°C
2.4"	CH240QV63A-CT	240*320 Dots	IPS/Transmissive/Normally Black	350 cd/m2	CTP	-20 - +70°C
2.4"	CH240QV53B-T	240*320 Dots	IPS/Transmissive/Normally Black	800 cd/m2	RTP	-20 - +70°C
2.8"	CH280QV36B	240*320 Dots	IPS/Transmissive/Normally Black	1000 cd/m2	No TP	-20 - +70°C
2.8"	CH280QV10-CT	240*320 Dots	IPS/Transmissive/Normally Black	1000 cd/m2	CTP	-20 - +70°C
2.8"	CH280QV07-T	240*320 Dots	TN/Transmissive/Normally Black	300 cd/m2	RTP	-20 - +70°C
3.2"	CH320QV18A	240*320 Dots	IPS/Transmissive/Normally Black	300 cd/m2	No TP	-20 - +70°C
3.2"	CH320QV15A-T	240*320 Dots	TN/Transmissive/Normally Black	250 cd/m2	RTP	-20 - +70°C
3.5"	CH350HV47B	320*480 Dots	IPS/Transmissive/Normally Black	1000 cd/m2	No TP	-20 - +70°C
3.5"	CH350HV51A-CT	320*480 Dots	IPS/Transmissive/Normally Black	600 cd/m2	CTP	-20 - +70°C
3.5"	CH350HV53A-T	320*480 Dots	TN/Transmissive/Normally Black	300 cd/m2	RTP	-20 - +70°C
3.5"	CH350QV11A	320*240 Dots	IPS/Transmissive/Normally Black	1000 cd/m2	No TP	-10 - +60°C
3.5"	CH350QV11C-T	320*240 Dots	IPS/Transmissive/Normally Black	300 cd/m2	RTP	-20 - +70°C
3.5"	CH350QV12A-CT-PA	320*240 Dots	IPS/Transmissive/Normally Black	300 cd/m2	CTP	-20 - +70°C
3.5"	CH350VG02A	640*480 Dots	IPS/Transmissive/Normally Black	300 cd/m2	No TP	-20 - +70°C
3.9"	CH390WQ01A	480*128 Dots	IPS/Transmissive/Normally Black	500 cd/m2	No TP	-20 - +70°C
3.95"	CH400WV19A	480*480 Dots	IPS/Transmissive/Normally Black	350 cd/m2	No TP	-20 - +70°C
3.95"	CH400WV17B-CTBA	480*480 Dots	IPS/Transmissive/Normally Black	300 cd/m2	CTP	-20 - +70°C
3.97"	CH400WV22A	480*800 Dots	IPS/Transmissive/Normally Black	450 cd/m2	No TP	-20 - +70°C
3.97"	CH400WV22A-CT	480*800 Dots	IPS/Transmissive/Normally Black	350 cd/m2	CTP	-20 - +70°C
4.3"	CH430HD01A	1280*720 Dots	IPS/Transmissive/Normally Black	300 cd/m2	No TP	-20 - +70°C
4.3"	CH430WQ18A	480*272 Dots	IPS/Transmissive/Normally Black	1000 cd/m2	No TP	-20 - +70°C

4.3"	CH430WQ21A-CT	480*272 Dots	IPS/Transmissive/Normally Black	350 cd/m2	CTP	-20 - +70°C
4.3"	CH430WQ09A-T	480*272 Dots	TN/Transmissive/Normally Black	230 cd/m2	RTP	-20 - +70°C
4.3"	CH430WV18A	480*800 Dots	IPS/Transmissive/Normally Black	400 cd/m2	No TP	-20 - +70°C
4.3"	CH430WV22A-CT	480*800 Dots	IPS/Transmissive/Normally Black	350 cd/m2	CTP	-20 - +70°C
4.3"	CH430WV17A-T	480*800 Dots	IPS/Transmissive/Normally Black	350 cd/m2	RTP	-20 - +70°C
4.41"	CH441FH01A	1920*1080 Dots	IPS/Transmissive/Normally Black	300 cd/m2	No TP	-20 - +70°C
4.5"	CH450FW06A	480*854 Dots	IPS/Transmissive/Normally Black	300 cd/m2	No TP	-20 - +70°C
5.0"	CH500FW09A	480*854 Dots	IPS/Transmissive/Normally Black	450 cd/m2	No TP	-20 - +70°C
5.0"	CH500FW11A-T	480*854 Dots	IPS/Transmissive/Normally Black	500 cd/m2	RTP	-20 - +70°C
5.0"	CH500FW09A-CT	480*854 Dots	IPS/Transmissive/Normally Black	450 cd/m2	CTP	-20 - +70°C
5.0"	CH500VG01A	640*480 Dots	TN/Transmissive/Normally Black	250 cd/m2	No TP	-20 - +70°C
5.0"	CH500WQ03B	480*272 Dots	TN/Transmissive/Normally Black	1000 cd/m2	No TP	-20 - +70°C
5.0"	CH500WQ03B-T	480*272 Dots	TN/Transmissive/Normally Black	1000 cd/m2	RTP	-20 - +70°C
5.0"	CH500WV10A	800*480 Dots	IPS/Transmissive/Normally Black	1200 cd/m2	No TP	-20 - +70°C
5.0"	CH500WV05A-T	800*480 Dots	IPS/Transmissive/Normally Black	250 cd/m2	RTP	-20 - +70°C
5.0"	CH500WV06A-CTA	480*800 Dots	IPS/Transmissive/Normally Black	350 cd/m2	CTP	-20 - +70°C
5.5"	CH550FH02A	1080*1920 Dots	IPS/Transmissive/Normally Black	600 cd/m2	No TP	-20 - +70°C
5.5"	CH550FH01A-CTB	1080*1920 Dots	IPS/Transmissive/Normally Black	300 cd/m2	CTP	-20 - +70°C
6.2"	CH620WV01A-CT	800*480 Dots	TN/Transmissive/Normally Black	350 cd/m2	CTP	-20 - +70°C
6.86"	CH068HWH12-CT	480*1280 Dots	IPS/Transmissive/Normally Black	450 cd/m2	CTP	-20 - +60°C
6.86"	CH686HD02A-CT	1280*480 Dots	IPS/Transmissive/Normally Black	500 cd/m2	CTP	-20 - +70°C
7.0"	CH700FH01A	1200*1920 Dots	IPS/Transmissive/Normally Black	700 cd/m2	No TP	-20 - +70°C
7.0"	CH700WS16A	1024*600 Dots	IPS/Transmissive/Normally Black	500 cd/m2	No TP	-20 - +70°C
7.0"	CH700WS12A-CTW	1024*600 Dots	IPS/Transmissive/Normally Black	300 cd/m2	CTP	-20 - +70°C
7.0"	CH700WS03D-T	1024*600 Dots	TN/Transmissive/Normally Black	350 cd/m2	RTP	-20 - +70°C
7.0"	CH700WV03A	800*480 Dots	TN/Transmissive/Normally Black	280 cd/m2	No TP	-20 - +70°C
7.0"	CH700WV03B-T	800*480 Dots	TN/Transmissive/Normally Black	700 cd/m2	RTP	-20 - +70°C
7.0"	CH700WV09B-CTB-PI	800*480 Dots	IPS/Transmissive/Normally Black	400 cd/m2	CTP	-20 - +70°C
8"	CH800FH03A	1200*1920 Dots	IPS/Transmissive/Normally Black	350 cd/m2	No TP	-20 - +70°C
8"	CH800SV01A	800*600 Dots	TN/Transmissive/Normally Black	350 cd/m2	No TP	-20 - +70°C
8"	CH800SV01A-CT-PB	800*600 Dots	TN/Transmissive/Normally Black	300 cd/m2	CTP	-20 - +70°C
8"	CH800WX02A-CT	800*1280 Dots	IPS/Transmissive/Normally Black	300 cd/m2	CTP	-20 - +70°C
8"	CH800XG01A	1024*768 Dots	IPS/Transmissive/Normally Black	2500 cd/m2	No TP	-30 - +80°C
8"	CH800XG04A-CT	1024*768 Dots	IPS/Transmissive/Normally Black	2500 cd/m2	CTP	-30 - +80°C
9"	CH900WS01A	1024*600 Dots	TN/Transmissive/Normally Black	250 cd/m2	No TP	-20 - +70°C
9"	CH900WV01A-CT	800*480 Dots	TN/Transmissive/Normally Black	300 cd/m2	CTP	-20 - +70°C
9"	CH900WX01A-CTB	1280*720 Dots	IPS/Transmissive/Normally Black	400 cd/m2	CTP	-20 - +85°C
10.1"	CH101WS03B	1024*600 Dots	TN/Transmissive/Normally Black	300 cd/m2	No TP	-20 - +70°C
10.1"	CH101WS08C-CTD	1024*600 Dots	IPS/Transmissive/Normally Black	1000 cd/m2	CTP	-20 - +70°C
10.1"	CH101WS03A-T	1024*600 Dots	IPS/Transmissive/Normally Black	400 cd/m2	RTP	-20 - +70°C
10.1"	CH101WX08A	800*1280 Dots	IPS/Transmissive/Normally Black	500 cd/m2	RTP	-20 - +70°C
10.1"	CH101WX05A-CTDW	800*1280 Dots	IPS/Transmissive/Normally Black	300 cd/m2	CTP	-20 - +70°C
10.25"	CH103WX01A	1280*480 Dots	IPS/Transmissive/Normally Black	900 cd/m2	No TP	-30 - +85°C
10.4"	CH104SV01A	800*600 Dots	TN/Transmissive/Normally Black	300 cd/m2	No TP	-20 - +70°C
10.4"	CH104SV01A-CT-PB	800*600 Dots	TN/Transmissive/Normally Black	300 cd/m2	CTP	-20 - +70°C

11.88"	CH119HD01A	440*1920 Dots	IPS/Transmissive/Normally Black	800 cd/m2	No TP	-20 - +70°C
12.3"	CH123FH01A-PA	1920*720 Dots	IPS/Transmissive/Normally Black	1000 cd/m2	No TP	-30 - +85°C
12.3"	CH123HAX04	1920*720 Dots	IPS/Transmissive/Normally Black	600 cd/m2	No TP	-30 - +85°C
13.3"	CH133FH01A	1920*1080 Dots	IPS/Transmissive/Normally Black	330 cd/m2	No TP	-20 - +70°C



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